

DAVID Y. IGE
GOVERNOR OF HAWAII



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES

POST OFFICE BOX 621
HONOLULU, HAWAII 96809

Testimony of
SUZANNE D. CASE
Chairperson

Before the House Committee on
FINANCE

Wednesday, April 4, 2018
2:30 PM
State Capitol, Conference Room 308

In consideration of
SENATE BILL 2571, SENATE DRAFT 2, HOUSE DRAFT 1
RELATING TO WATER POLLUTION

Senate Bill 2571, Senate Draft 2, House Draft 1 proposes to ban the sale, offer for sale, or distribution in the State of any sunscreen that contains oxybenzone or octinoxate, or both, without a prescription issued by a licensed healthcare provider. It also would prohibit counties from enacting an ordinance or regulatory restriction to prohibit the sale, use, labeling, packaging, handling, distribution, or advertisement of sunscreens containing oxybenzone or octinoxate, or both, prior to July 2021. **The Department of Land and Natural Resources (Department) appreciates the intent of this measure and offers the following comments.**

The Department recognizes the concerns about the presence of oxybenzone and octinoxate in the nearshore marine environment. Peer-reviewed studies have documented the negative impact of these chemicals on corals and other marine life in a laboratory setting. Very little is known about the actual impacts of these chemicals in a natural marine setting. Prohibiting the sale of products containing oxybenzone and octinoxate may benefit the health and resiliency of Hawai'i's coral reef ecosystems. The Department recommends support of increased monitoring of oxybenzone and octinoxate at high-use swimming areas and the support of further research examining the effects of these chemicals on the nearshore marine environment in Hawai'i.

The Department also recognizes the hazards associated with UV exposure and the need for preventative measures to mitigate negative health effects, as well as the challenges of implementation and enforcement of any oxybenzone and octinoxate sale and distribution provisions. Visitors to our islands often bring their own sunscreen products with them, and a ban on sale would not address this issue.

SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
FIRST DEPUTY

JEFFREY T. PEARSON P.E.
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

The Department supports the use of sunscreens that do not contain oxybenzone or octinoxate when in or on the water, as well as sun protective clothing, as alternatives. The Department continues to conduct outreach efforts to help the public understand the issues regarding using oxybenzone and similar chemicals in the ocean so they can be better informed and make better choices regarding sun protection. These efforts include information on the Department's Division of Aquatic Resources website, focused one-on-one outreach and distribution of oxybenzone-free sunscreen samples at public events, outreach at the 'Āhihi-Kīna'u Natural Area Reserve, news releases, videos, interaction with partner organizations, and meetings with boat tour operators and vendors who sell sunscreen to spread the word. The Department continues to explore other ways to inform the public on this issue.

It should be noted that the primary stressors of coral reefs in Hawai'i are related to land-based source pollution, over-fishing, invasive species, and climate change. Continued legislative support of efforts to reduce these stressors will have the largest impact on coral reef resilience and recovery.

Thank you for the opportunity to comment on this measure.



SB2571 SD2
RELATING TO WATER POLLUTION
House Committee on Energy & Environmental Protection

April 4, 2018

2:30 p.m.

Room 308

The Office of Hawaiian Affairs (OHA) **SUPPORTS** SB2571 SD2 HD1, which would mitigate the impacts of oxybenzone and related chemicals on our coral reefs.

Hawai'i's marine environment and nearshore resources serve as a cultural, socioeconomic, and scientific foundation for our islands. OHA notes that economic studies in 2002 and 2003 found an overall contribution of \$800 million in revenue generated from our coral reefs and coastal resources, with an added recreational, amenity, fishery, biodiversity and educational value of \$364 million per year. A more recent report released in 2011 utilizing "innovative economic survey techniques" found that across U.S. households, the economic value of protecting Hawai'i's nearshore environment could be estimated at \$34 billion a year. While our ocean waters clearly hold cultural, spiritual, and biological significance beyond any monetary value, these economic analyses clearly reflect the critical nature of our marine environment to our islands.¹

This measure represents a small step towards ensuring greater resilience in our coral reefs and nearshore waters. With the overarching threats of climate change and a growing population base, it is incumbent upon the state and its residents to ensure that our foundational nearshore resources are sufficiently resilient, to best withstand the inevitably increasing pressures that will be placed upon them. While oxybenzone- and octinoxate-based sunscreen is just one of many stressors on our coral reefs, reducing the prevalence of this known chemical threat is a small yet positive step towards ensuring such greater

¹ See Carlie S. Weiner, Mark D. Needham, & Paul Wilkinson, *Hawaii's real marine life park: interpretation and impacts of commercial marine tourism in the Hawaiian Islands*, 12 CURRENT ISSUES IN TOURISM 489, 489-90 (2009) citing P.J. van Beukering & H.S. Cesar, *Ecological economic modeling of coral reefs: Evaluating tourist overuse at Hanauma Bay and algae blooms at the Kihei Coast, Hawai'i* 58 PAC. SCIENCE 243 (2007); A.M. Friedlander et. al., *The state of coral reef ecosystems of the main Hawaiian Islands* in THE STATE OF CORAL REEF ECOSYSTEMS IN THE UNITED STATES AND PACIFIC FREELY ASSOCIATED STATES 222-269 (2005), K. DAVIDSON, M. HAMNET, & C. MINATO, ECONOMIC VALUE OF HAWAII'S NEARSHORE REEFS (2003), available at [http://nature.forestry.oregonstate.edu/sites/default/files/2009-2%20CIT%20-%20Wiener%20Needham%20Wilkinson%20\(2009\).pdf](http://nature.forestry.oregonstate.edu/sites/default/files/2009-2%20CIT%20-%20Wiener%20Needham%20Wilkinson%20(2009).pdf); HERMAN CESAR ET. AL, ECONOMIC VALUATION OF THE CORAL REEFS OF HAWAII FINAL REPORT 74 (2002), available at http://www.coralreef.gov/meeting18/evhcri_samoa_2007.pdf; RICHARD C. BISHOP ET. AL., TOTAL ECONOMIC VALUE FOR PROTECTING AND RESTORING HAWAIIAN CORAL REEF ECOSYSTEMS: EXECUTIVE SUMMARY (2011), available at http://coralreef.noaa.gov/aboutcrp/news/featuredstories/oct11/hi_value/resources/protecting_restoring_hawaiian_cre.pdf.

resilience. Notably, this measure may not only directly reduce the impacts of oxybenzone and octinoxate on our most popular nearshore areas, but its passage may also promote greater public awareness of the need to better protect the resources we so substantially rely upon.

OHA notes that earlier versions of this measure did not restrict the further regulation of oxybenzone and octinoxate by the counties, who may wish to further protect their local resources and particularly sensitive areas from these chemical stressors. Accordingly, OHA respectfully recommends that the Committee reconsider the express preemption of county regulation as contained in the current draft of this measure.

Therefore, OHA urges the Committee to **PASS** SB2571 SD2 HD1. Thank you for the opportunity to testify on this measure.

FRIENDS OF HANAUMA BAY

To: House Committee on Finance

Representative Sylvia Luke, Chair

Representative Ty Cullen, Vice-Chair

Re: SB2571 SD2 HD1 Relating to Water Pollution: Banning the Sale of Sunscreen Containing Oxybenzone and/or Octinoxate

Hearing: Wednesday, 4 April 2018, 2:30 p.m., Room 308

Position: STRONG SUPPORT

Aloha Chair Luke, Vice-Chair Cullen, and Finance Committee Members,

Thank you for the opportunity to testify in **strong support** of SB2571 SD2 HD1 banning the sale of reef-toxic sunscreen containing oxybenzone and/or octinoxate in the State of Hawaii.

We firmly believe that this simple, straightforward bill is vitally important to the survival of our endangered coral reefs and near-shore marine environment, and can easily be implemented on 1 July 2021 since there are already numerous affordable and effective sunscreen products and protective active wear readily available on the market that do not contain oxybenzone and octinoxate.

With this bill, we have the opportunity to actually stop the majority of sunscreen pollution of our fragile coral reefs and marine environment almost immediately, and at no cost to the State or stakeholders - which include a large number of Hawaii-based businesses and a huge number of Hawaii residents who recognize and support the critical need to ban oxybenzone and octinoxate from Hawaii's marine environment.

As you know, coral reefs are dying around the world. Close to 50% of corals were lost in the bleaching episodes of 2014 and 2015. They need all the help they can get to recover.

Coral reefs are critical to Hawaii's resilience to climate change, protecting our shorelines and property from destructive wave and sand erosion. Coral reefs are also a vital component of our multi-billion dollar Tourism Industry.

Chemicals in sunscreens like oxybenzone and octinoxate have polluted our marine environment since the 1970s, but the Personal Care Product Industry has never proven that chemical sunscreens are safe for marine environments.

Instead, a multitude of undisputed scientific studies over the past 20 years, including studies by eminent coral biologists in NOAA's Coral Health and Disease Program, demonstrate that the chemicals oxybenzone and octinoxate found in some sunscreens are toxic to corals and other marine animals. These chemicals harm and kill coral larvae, among other ways, by causing genetic mutations that cause gross deformities, and making corals more susceptible to bleaching at lower temperatures. They also reduce reproductive success of fish that clean the reefs, kill algae (limu) and sea urchins, and bioaccumulate in edible fish, dolphins (cetaceans), shellfish, and limu.

Exposure to oxybenzone and octinoxate reduces resiliency of coral reefs and their ability to recover from the impact of other environmental hazards like sedimentation and climate change because they will continue to taint a reef area even if sedimentation or other reef stressors are eliminated.

Coral larvae die within 24 hours of exposure to oxybenzone levels as low as 62 parts per trillion (PPT). Alarming high levels of oxybenzone and octinoxate have been measured in waters around Hawaii. Oxybenzone levels in Waikīkī have been measured as high as 11,300 PPT. Even worse, Hanauma Bay is a Federal Clean Water Act Class AA marine embayment, is located within the Hawaiian Islands Humpback Whale National Marine Sanctuary, and is Hawaii's first Marine Life Conservation District - yet **oxybenzone levels at Hanauma Bay have recently been measured as high as 27,888 PPT, the highest levels found anywhere in our State!**

Additionally, a growing body of scientific studies has also identified oxybenzone and octinoxate as endocrine disruptors linked to serious human health issues including breast and lung cancer, and endometriosis.

Please pass SB2571 SD2 HD1 so places like Hanauma Bay can survive. It is the best and immediate solution to eliminate sunscreen pollution of Hawaii's coral reefs.

Mahalo again for the opportunity to testify.

Lisa Bishop
President
Friends of Hanauma Bay
president@friendsofhanauabay.org
lisa.fohb@gmail.com
(808) 748-1819

HAWAI'I REEF AND OCEAN COALITION

**To: House Committee on Finance
Rep. Sylvia Luke, Chair
Rep. Ty J.K. Cullen, Vice Chair**

Re: SB 2571, SD 2, HD 1 to Ban Sunscreens with OXYBENZONE and/or OCTINOXATE

Hearing: Wednesday, April 4, 2018, 2:30 p.m., Room 308

Position: STRONG SUPPORT, preferably with amendments

The HAWAI'I REEF AND OCEAN COALITION – HIROC – was formed last year by coral reef scientists, educators, local Hawai'i environmental organizations, elected officials, and others to address a crisis facing Hawaii's coral reefs and ocean. We are currently asking the Legislature to pass a handful of very important bills to save our coral reefs – they are bills relating to sunscreens – this bill; plus bills on cesspools; Styrofoam; plastic straws, bottles and other marine debris; and sea level rise.

We strongly support SB 2571, SD 2, HD 1, which would ban sunscreens containing either oxybenzone or octinoxate, which quite simply are toxicants that are poisoning our reefs. **The science is clear; there is no reason for further delay; there are already commercially readily available alternatives on the market; and we must just stop killing our reefs,** which are essential to what is so basic to what is Hawai'i. HIROC thanks the House Finance Committee for agreeing to hear this very important bill.

Coral reefs are dying around the world. According to the U.S. Commission on Ocean Policy, the top three causes of coral reef decline are over-fishing of coral reef resources, reduction in water quality due to pollution, and massive bleaching events tied to global climate change. Because of Hawai'i's remote location in the middle of the Pacific, ocean acidification can pose a threat to Hawai'i's coral reefs in the future. Hawai'i is more dependent on healthy coral reefs than any other state and so needs to take the lead on reef protection measures.

Our shorelines, beaches, tourist-based economy, and pristine recreational waters are dependent on healthy coral reefs. Hawai'i cannot reach out and fix global pressures that contribute to coral reef deterioration, but we can increase the resiliency of our own coral reefs by reducing local "insults" that degrade reefs and prevent their restoration and sustainability.

We can increase the strength and health of our coral reefs by actively managing and mitigating localized stressors, such as: 1) runoff containing sediment, pesticides, fertilizers, and other pollutants; 2) nutrients from human waste, especially raw human waste from cesspools; 3) overfishing, especially of herbivores and other fish critical for reef health; 4) plastic marine debris; and 5) chemical sunscreens and other personal care products containing the chemicals oxybenzone and octinoxate.

Commented [h1]: I completely agree with this, but just thinking about the political blow back that would come from CropLife and ACC.

This bill addresses the problem of sunscreens containing oxybenzone and octinoxate. The purpose of the bill is to help protect Hawai'i's coral reefs by prohibiting the sale, offer to sell, and distribution of non-prescription sunscreen products that contain oxybenzone or octinoxate (or both).

Oxybenzone data in Hawai'i include concentrations in Honolua Bay on Maui in 2015 at 1.9 parts per billion. Octinoxate data in 2015 at 11 coral reef sites had concentrations from 6.9 to 1,516 parts per trillion. Studies show that far more minute amounts of oxybenzone and octinoxate severely harm corals and other reef organisms, such as fish, sea urchins, and seaweeds. Studies from around the globe indicate that oxybenzone and octinoxate appear to harm corals in four ways:

(1) By causing young and adult corals to bleach – or lose the living photosynthetic organism that feeds them – when exposed to natural stressors such as heat, cold, lack of light and lack of salt;

(2) By damaging coral DNA, which can reduce coral's lifespan and immunity to disease, as well as disrupting normal development and reproduction;

(3) By causing deformities in coral larvae that ultimately kill them.

(4) By the fact that oxybenzone and octinoxate are documented and recognized endocrine disruptors that adversely affect skeletal development, sexual characteristics, reproductive competency, and even critical survival behaviors. For example, in coral larvae, oxybenzone can cause the larvae to encase themselves in their own skeletons, effectively killing them.

In vertebrate toxicological studies, a preponderance of independent investigations have demonstrated that oxybenzone causes proliferation of **human breast cancer** cells, by accelerating the spread of cancer cells. Other studies have demonstrated that **exposure to oxybenzone increases prostate and lung cancer cell proliferation.**

The U.S. Centers for Disease Control have concluded from studies that over 97% of the U.S. population is contaminated with oxybenzone and octinoxate and found in their blood, urine and breast milk. Several studies have concluded that oxybenzone transfers into the fetus *in utero* via the umbilical cord, apparently reducing birth rate and overall weight in girls up to the age of 7. A pivotal study published in 2016 identified an etiological link between oxybenzone and the occurrence of a neurological disease call Hirschsprung's deformity (congenital megacolon) that can be fatal without surgery and occurs in demographics between one birth in 268 to 5,000 births. Numerous studies have shown strong links between oxybenzone/octinoxate exposure and negative impacts on fertility, ranging from unviability of sperm and low sperm counts to issue with inhibition of conception and other infertility diseases. Dating back to the early 1980s, there are over 100 scientific papers and industry reports demonstrating mutagenicity, reproductive toxicology and endocrine disruption, as well correlation of sunscreen abuse and misuse with the rise in global skin cancer statistics.

HIROC has received at least two dozen recent scientific articles supporting the contentions in this testimony relating to the toxicity of oxybenzone and/or octinoxate that we will gladly and promptly provide to the Committee upon request.

Science on endocrine disruption is still developing, but the current data and scientific studies already indicate potentially harmful health effects on humans, as well as harmful effects on corals and other marine biota. **Banning sales of oxybenzone and octinoxate now is amply justified under the precautionary principle**, and should be subject to a transparent formal human and ecological risk assessment as proposed by both the U.S. National Academy of Sciences and the U.S. Environmental Protection Agency.

Although we would greatly prefer a stronger bill, we recognize that political realities may require that this bill be passed out of this Committee without substantial amendment.

Accordingly, at this point, we request only that this Committee “fix” the defective effective date and correct the scientific definitions of oxybenzone and octinoxate, which, as contained in this bill, are not precisely correct. Corrections are in the footnote, below.

Thank you again for the opportunity to testify on this critical measure.

Alan B. Burdick, for HIROC
Burdick808@gmail.com/486-1018

"Octinoxate" means the chemical (RS)-2-Ethylhexyl (2E)-3-(4-methoxyphenyl)prop-2-enoate under the International Union of Pure and Applied Chemistry chemical nomenclature registry that has a chemical abstract service registry number 5466-77-3, and whose synonyms include [but are not limited to] ethylhexylmethoxycinnamate, octyl methoxycinnamate, Eusolex 2292, and Uvinul MC80, and is intended to be used as protection against ultraviolet light radiation with a spectrum wavelength from ~~370~~ 400 nanometers to ~~220~~ 280 nanometers in an epidermal sunscreen-protection personal care product.

"Oxybenzone" means the chemical (2-Hydroxy-4-methoxyphenyl)-phenylmethanone under the International Union of Pure and Applied Chemistry chemical nomenclature registry that has a chemical abstract service registry number 131-57-7, and whose synonyms include [but are not limited to] benzophenone-3, Escalol 567, Eusolex 4360, KAHSCREEN BZ-3, 4-methoxy-2-hydroxybenzophenone and Milestab 9, and is intended to be used as protection against ultraviolet light radiation with a spectrum wavelength from ~~370~~ 400 nanometers to ~~220~~ 280 nanometers in an epidermal sunscreen-protection personal care product.

SB-2571-HD-1

Submitted on: 4/2/2018 9:52:58 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
doorae shin	Kokua Hawaii Foundation	Support	No

Comments:

Aloha Chair Luke, Vice Chair Cullen, and Members of the Finance Committee,

Kokua Hawaii Foundation has supported environmental education in schools of Hawai'i since 2003, and we stand in strong support of SB2571. Please pass this bill, with an amendment to make the effective date sooner than 1/1/2063. Many large companies are voluntarily removing or committed to removing oxybenzone and octinoxate from their products already, so we know this is not only feasible but in fact quite easy. Companies only need a year or two to make the switch.

Please pass this bill as it is an easy and simple way to protect our ocean and for all of us, residents and tourists alike, to enjoy the ocean without harming it and all of the amazing life and coral reefs that live in it.

Mahalo,

Doorae Shin

Program Manager, Plastic Free Hawai'i
Kokua Hawaii Foundation

SB-2571-HD-1

Submitted on: 4/2/2018 9:40:19 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kahi Pacarro	Sustainable Coastlines Hawaii	Support	No

Comments:

You enter the water at Waikiki now a days and you don't even need to apply sunscreen. The sheen of toxic brands shines like an oil slick creating a rainbow kaleidoscope that coats your skin as you paddle out. Even before we knew the sunscreens we were using were toxic it was unacceptable to see the tourist oil spill. Now that it is obvious, while non detrimental options exist, the fact that we need to convince our politicians to pass a bill to ban toxic sunscreens is challenging. The postive side is the fact that it seems you hear us as a community of ocean loving constituents. The reverb of the lobbying groups are being drowned out by cacophony of those that have and will continue to support you. Our reefs cannot vote, our fish cannot vote, our keiki cannot vote. But we can.

We encourage you to support a ban on toxic sunscreens and pass SB2571.

Aloha,

K



THE GARDEN CLUB OF HONOLULU

P.O. Box 11840, Honolulu, HI 96828 • www.gchonolulu.org

April 2, 2018

Dear Committee, House Finance Committee
Hawaii State Capitol
415 South Beretania St.
Honolulu, HI 96813

On behalf of The Garden Club of Honolulu, I am writing to express our strong support of SB2571 banning sunscreens that contain oxybenzone and octinoxate. We are deeply concerned about the deadly impact these chemicals have on our oceans and reefs. Hawaii has an opportunity to take a leadership role in saving coral reefs around the world and in saving our State's shorelines and economic viability. Our island environment dictates that we do everything possible to preserve our coral reefs.

The Garden Club of Honolulu's mission is to conserve, protect and preserve our natural environment through learning, teaching and action. We have 143 members living in the islands and many are leaders in the Honolulu community. Our club was founded in Honolulu in 1930 and we became a member of the Garden Club of America (GCA) in 1932. GCA has been devoted to conservation issues for over 100 years.

The Garden Club of Honolulu is closely following the progress of SB2571. We will encourage and educate citizens to purchase reef-safe products.

Sincerely,

Jann S. Boxold

Jann S. Boxold
President, The Garden Club of Honolulu

SB-2571-HD-1

Submitted on: 4/2/2018 3:59:17 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Tina Owens	LOST FISH Coalition	Support	No

Comments:

Thank you, Chair Luke, for hearing this very important bill and all the committee members for their careful attention.

The LOST FISH Coalition has spent the last 20 years working to protect the coral reefs and the fish populations in West Hawaii. Twenty years of volunteer work that has been instrumental in maintaining the health of our reefs.

Now when climate change has already decimated as much as 90% of our precious corals in some places, we find that these two chemicals used in sunscreen have been poisoning our waters, our reefs and even our keiki.

Please pass this bill. We need it now. Please change the beginning date to Jan. 1, 2019.

Mahalo!

Tina Owens

Executive Director, LOST FISH Coalition

SB-2571-HD-1

Submitted on: 4/2/2018 4:45:56 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Rick Gaffney	Hawaii Fishing & Boating Association	Support	No

Comments:

There is a growing body of peer-reviewed scientific literature certifying that oxybenzone and octinoxate are detrimental to our nearshore ecosystems.

These sunscreen chemicals wash off ocean users, directly into the marine environment, and they also wash off later in the shower, ultimately moving from sewage treatment plants, cesspools and septic systems into the ocean, where they do cumulative damage to our marine ecosystems.

The argument that there will be more skin cancers without oxybenzone and octinoxate in the sunscreens sold in Hawaii, is specious and disingenuous. There are plenty of effective sunscreens with high SPF factors that will protect us from skin cancer, and that do not contain noxious chemicals. Virtually all the major sunscreen manufacturers already produce sunscreens without oxybenzone and octinoxate in them, as do a growing number of Hawaii-based companies.

The Finance Committee should pass this important bill.

VOLCANO COMMUNITY ACTION NETWORK

VOLCANO C.A.N.

April 2, 2018

SB 2571
RELATING TO WATER POLLUTION
House Committee on Finance
Rep. Sylvia Luke – Chair
Public Hearing on Wednesday, 04-04-18
2:30PM in State Capitol, Conference Room 308

By
Reed Bertollette, Member Volcano Community Action Network

Our organization, the Volcano Community Action Network, unanimously agree with the premise of SP 2571. Oxybenzone is also known as Benzophenone-3. Benzophenones have been linked to coral bleaching in multiple studies, including a 2015 study published by the Archives of Environmental Contamination and Toxicology*.

In addition to the obvious ecological considerations of keeping our ocean alive, Hawaii depends on tourism for much of its income. The industry will suffer if we get the reputation for not caring for the environment, and being home to dead, lifeless beaches.

Thank you for your consideration,

Reed Bertollette
PO Box 705
Volcano HI 96785-0705

* https://en.wikipedia.org/wiki/Archives_of_Environmental_Contamination_and_Toxicology

Sponsors of the Conscious Coffee House, a hub for progressive political action. Once-a-month meeting details on Facebook.
Speakers ♦ Information sharing ♦ Discussions of issues ♦ Raising awareness and funds ♦ Effective advocacy ♦ With coffee!

V-C.A.N. ♦ PO Box 504, Volcano, Hawaii 96785

SB-2571-HD-1

Submitted on: 4/3/2018 9:28:59 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Sarah Rafferty	Big Island Divers	Support	No

Comments:

I am writing on behalf of Big Island Divers in Kailua Kona, in strong support of this bill prohibiting the sale of sunscreens containing oxybenzone and octinoxate here in Hawaii. These chemicals have been proven to kill coral larvae. As a dive company with 6 boats operating an average of 8 tours daily, we rely on a thriving and healthy reef ecosystem to continue to operate our business. After the record-hot summer of 2015, our local reefs were put through major stress and suffered severe damage. We cannot afford to lose more coral. We have had great success selling several options of reef-safe sunscreen in our retail outlet, and our visiting guests are always happy to learn of a new way they can help prevent damage to the resources they come here to enjoy from all over the world. We believe this is a crucial step to preserving the future of our natural resources here in Hawaii.

Mahalo,

Sarah Rafferty

Sales & Public Relations
Big Island Divers
(808) 329-6114

Ban Toxic Sunscreens

protect people • corals • marine life

To: Finance Committee

Rep Sylvia Luke, Chair; Rep Ty Cullen, Vice Chair

Hearing: Wednesday, April 4, 2018, 2:30pm, Room 308

We support SB2571 SD2 HD1 to ban sunscreens containing oxybenzone and octinoxate. The science is well established, with numerous scientific papers and reports on the dangers of these ingredients to people, corals, marine life. (NOAA: <https://bantoxicsunscreens.files.wordpress.com/2017/04/noaa-oxybenzone-cherly-woodley-senator-espero-hawaii.pdf>; Dr. Downs: <https://www.facebook.com/BanToxicSunscreens/videos/1500783303315960/>); More studies: <https://bantoxicsunscreens.com/research/>)

Whether we choose to use these sunscreens or not, in Hawai'i we are exposed to these toxins daily. They are impossible to avoid at the beach, parks, swimming and hiking areas and almost all popular tourist locations (we inhale them through aerosols, swim in the chemical sunscreen pollution). Locals find themselves curtailing when they go to these areas and what time of the day to try to avoid peak hours. Mothers are concerned about the effects on their young children. We've spoken to many who have no choice – lifeguards, surf instructors, boat tour operators, concessions... – who are very concerned that they must breathe these toxic sunscreen aerosols all day long.

Researchers are now finding these chemicals in our local fish. When word gets out this could negatively impact related business (fishermen to fish markets to restaurants) supplying fish to the public – not to mention the effects to people who regularly consume them. These chemicals bioaccumulate in humans and marine life, with a variety of impacts on health (https://www.youtube.com/watch?v=EOfh_qGXqrg).

Regardless to how corals are stressed, whether it be storms, sediment, pesticides, warming... if these chemicals are in the water they damage coral DNA and kill coral larvae to the point restoration can not take place. (<https://www.youtube.com/watch?v=28qWIPeOkvI>) There's no reason to risk the health of people, Hawaii corals and near shore aquatic environment when there are plenty of options.

It's often suggested that if we ban oxybenzone and octinoxate there will not be adequate sunscreen choices in Hawai'i. #1 – These are two of the most inefficient active UV filters. #2 – There are thousands of sunscreens without these ingredients. As we saw last year when legislation related to sunscreen was introduced in Hawai'i, local stores started displaying shelves filled with sunscreens with "Oxybenzone Free" stickers on them. Since it takes upwards of 18 months to reformulate, it seems companies were already prepared with updated formulations. As a result, today there are many oxybenzone-free and octinoxate-free options available.

There's also an increasing number of efficient mineral sunscreens available in shops across the islands: All Good, Babo Botanicals, Badger, Goddess Garden, Happy As Larry, Hawaii Medicinals, Kuleana Sun Protection, Little Hands Hawaii, Mama Kuleana, Manda Naturals, Raw Elements, Raw Love, Sol Kine Maui... to name a few. They're sold in a variety of locations: convenience stores, health food stores, grocery stores, surf and paddle shops, snorkel and dive shops, boat tours, activity booths, coffee shops, boutiques, farmer's markets and more. Larger corporations are onboard, including airlines (<https://www.facebook.com/HawaiianAirlines/posts/10155539997528505>), tour companies, large hotel chains and tourist destinations (<https://www.facebook.com/RawElementsUSA/posts/10154678810503078>; <https://www.instagram.com/p/BgrawMyBt2F/?taken-by=littlehandshawaii>) – all are beginning to offer safer natural sunscreens to their guests. Once locals and tourists are made aware of the problem both want safer sunscreens that don't harm the environment!

There is now a growing store finder at sunscreensafe.com to help consumers find shops that carry safe brands. The Safe Sunscreen Coalition helps businesses educate and outreach to this growing demand.

Ban Toxic Sunscreens is a group of concerned citizens who have been working to educate locals and tourists about the dangers of toxic sunscreens for three years. Efforts include marketing across social media, sunscreen educational cards, signs, pamphletes, organizing sunscreen trade-ins with non-profits, student groups, and others across the islands. We also give a forum for local groups to speak out about their concerns (<https://www.youtube.com/watch?v=CzX-v-VdRq0>).

Maintaining Hawaii as a healthy place to live – while marketing it as a sustainable, eco-tourism destination with a vibrant life-filled underwater seascape – will have unlimited long-term benefits. There is no great expense to prevent sunscreens with oxybenzone and octinoxate to be sold in Hawaii. And local groups with an expertise who are already working to educate – along with Hawaii Tourism Authority – can work together for even greater outreach, as we wait for this ban to go into full effect (less expense the sooner a ban goes through!).

At this point there's really no excuse. It's time we get these chemicals out of the water to protect human health, marine life, and give our corals a chance at restoration.

Mahalo.

Wil McClaren

Ban Toxic Sunscreens

bantoxicsunscreens.com



Bay and Beach Foundation

*PO Box 10823
Lahaina, HI 96761*

April 3, 2018

Dear Representative Luke and Members of House Finance Committee:

I am writing to you today, to ask you to support legislation SB2571 SD2 HD1, that bans the sale of sunscreen and other personal-care products that contain OXYBENZONE and OCTINOXATE, as the most effective way to protect Hawaii's coral reef life.

For the past 15 years, OXYBENZONE (as well as OCTINOXATE) were considered by the U.S. Environmental Protection Agency and the U.S. National Oceanic & Atmospheric Administration as "emerging environmental contaminants of concern." In October 2015, a scientific publication in Archives of Environmental Contamination and Toxicology showed the toxicology and pollution of OXYBENZONE and its threat to coral reefs in Florida, Hawaii, and the U.S. Virgin Islands. Since then, numerous other scientific papers have been published with data supporting that OXYBENZONE (1) pollutes the environment, (2) accumulates and travels through the ecological food-chain, (3) can cause natural resource damage to aquatic and marine environments, (4) is a significant endocrine disruptor in a variety of animal life including marine mammals, and (5) causes damage to coral planula (baby corals) that decreases their motility and ability to create new reef growth.

At Napili Bay, Maui, community efforts led by Napili Bay and Beach Foundation have led to education for beach visitors, and to changing product lines in the stores on the bay, in an effort to protect and improve the health of Napili beach and bay. However, most visitors buy their sunscreen products at stores like Costco and ABC, before they arrive at Napili. The most effective way to reduce levels of this pollutant would be to ban the sales of the products, state-wide.

New scientific data has also shown that both Oxybenzone and Octinoxate have toxic effects on human health as well. This information has been summarized well in two recently published 'info graphics' in the Star Advertiser, which I'm copying here for your information.

Pat B. Lindquist, President
Norm Runyan, Director

Gregg Nelson, Vice-President
Jamie Lung-Ka'eo, Director

Nane Aluli, Secretary
Dana Reed, Director

Sources of Oxybenzone Contamination

PLACENTAL TRANSFERENCE

BREAST MILK TRANSFERENCE

Pediatric Toxicities

- Decreased Birth Weight in Girls
- Increased Birth Weight in Boys
- Lower Abdominal Circumference, Femur Length, and Weight
- Hirschsprung Disease
- Decreased BMI in 5-6 Month Old Infants
- Decrease in Fat Mass During Neonatal Exposure
- Lower Testosterone Levels in Adolescent Boys
- Altered Pubertal Development and Timing
- Delayed Breast Development in Girls

Sources of Octinoxate Contamination

BREAST MILK TRANSFERENCE

PLACENTAL TRANSFERENCE

Resulting Toxicities

- Increase Breast Cancer Proliferation
- Decreased Free Thyroid T3 & T4 Hormone Levels
- Lower Testosterone Levels in Adolescent Boys
- Decreases Sperm's Ability to Fertilize Eggs
- Can Reduce the Efficacy of Sunscreens
- May Interfere with Thyroid Function in Children 4 & under
- Stimulates Enzymes That Can Produce Melanoma
- Causes Allergic Skin Reactions
- Not a Broad Spectrum Sunscreen Active
- Found in Municipal Treated and Desalinated Drinking Water
- Considered an Endocrine Disruptor
- Poses a Significant Risk to Aquatic Life
- Reacts with Pool Chemicals
- Toxic Byproducts Kill Limu
- Biomagnifies in the Food Chain

For all these reasons, I am calling upon your leadership to support SB2571 SD2 HD1 with a date for implementation of January, 2019. The health of reefs in Hawaii AND humans using or swimming in contaminated waters is at stake.

Sincerely,

Pat B. Lindquist, President, Napili Bay and Beach Foundation

"Our mission is to protect and improve the health of Napili beach and bay"

Pat B. Lindquist, President
Norm Runyan, Director

Gregg Nelson, Vice-President
Jamie Lung-Ka'eo, Director

Nane Aluli, Secretary
Dana Reed, Director

SB-2571-HD-1

Submitted on: 4/3/2018 12:20:09 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Diane Koerner	Greener Hawaii	Support	No

Comments:

Aloha, I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and specifically corals. As a person with chemical sensitivities, I get migraines from breathing in other people's toxic chemical sunscreens. Our wildlife, and as we all know, our coral is also being affected. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration cannot happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are many more safe, efficient options presently available in Hawai'i. Mahalo, Diane Koerner, Board Member, GreenerHawaii.com

SB-2571-HD-1

Submitted on: 4/3/2018 11:38:43 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Fawn Liebengood	808 Cleanups	Support	No

Comments:



April 3, 2018

TO: HOUSE OF REPRESENTATIVES
HOR COMMITTEE ON FINANCE

Wednesday, April 4, 2018 2:30PM Room 308
In SUPPORT of SB 2571 Relating to water pollution

Dear Chair Luke, Vice Chair, Cullen and Committee Members,

On behalf of myself and Caroline Duell, founder of All Good Skin Care products, as concerned citizens and business owners dedicated to manufacturing and marketing products and brands which benefit people and the planet, we want to pledge our support for bill SB 2571.

Hawaii is a year-round market for big industry to make big profits off sunscreen. But at what cost to our fragile ecosystem? It is time to stand up to big industry that drives profit at the cost of destroying our land.

Research has found that two toxic chemicals, Oxybenzone and Octinoxate, found in sunscreen, sunblock and cosmetics, cause significant harm to living organism endocrine systems, causing disruption of hormone levels and the inability to reproduce. If we harm our reefs endocrine systems, we harm their ability to reproduce, even if, and when, conditions for a healthy reef begin to thrive. Effective management of these toxic chemicals entering our shorelines can stop and possibly reverse degradation.

There are many non-toxic sunscreens options for sale, at price points that are reasonable and even competitive with the toxic sunscreens that contain Oxybenzone and Octinoxate. All Good retails sunscreen at major retails chains across the islands such as (but not limited to) Long's, Target and HIC Surf for anywhere between \$8.99-\$21.99. Alba's mineral based sunscreen retails at major chains such as Safeway and Whole Foods for \$8.99-\$11.99. Because alternatives to chemical sunscreens are readily available to keep people safe from burns and skin cancer, there is no need to continue to put an additional stress on our reefs.

We've attached HUNDREDS of pledges from concerned citizens and visitors who commit to choose reef friendly sunscreen, free of toxic chemicals. These people pledge to use sunscreen

with nan-nano Zinc Oxide as the only active ingredient. Pledges have been gathered at community events on both Maui and Oahu since April 2017. I hope you find it helpful.

Thank you for allowing us to testify on this important issue.

Keely Bruns
Founder, Good Swell, Inc.



+ Reef Friendly

I Take the Pledge: Only #ReefFriendly Sunscreens

FIRST NAME	LAST NAME	EMAIL	ZIP CODE	Why do you pledge #ReefFriendly?
Helen	WALKER	helenwalker808@gmail.com	96711	Right thing to do!!
Kara	DAVE	kdave@pacel.com	93036	good things
IAN	CAMPBELL	iancampbell@stmail.com	96744	It's right
ALDO	DAPELO	aldodape@albm.com	96712	Right
JESS	SUN	alsalmsun@gmail.com	95587	Great things
Christie	Callahan	christiecallahan@gmail.com	64901	
Melody	Heidel	melheid@pacel.com	96734	I've been looking for it!!
DANNA	FERTIS	dfertis@gmail.com		Waiting for this!
REA	F	ferent@address@gmail.com		Love the ocean! For my husband
Jess	Campbell	jessecampbell@pacel.com	96734	A
Dan	Munter	munterd@gmail.com	96734	A
Pam	Elysof	elysof@pacel.com	96822	Safe the Planet
Mike	Walker	kwalker@gmail.com		I REEFERS
Christina	Hudson	chudson@pacel.com	96734	Safe sun and safe sea.
Torin	Greentz	torin@pacel.com	96734	Safe sun and safe sea.
Danielle	Nicotte	dnicotte@pacel.com	96734	Safe sun and safe sea.



I Take the Pledge: Only #ReefFriendly Sunscreens

FIRST NAME	LAST NAME	EMAIL	ZIP CODE	Why do you pledge #ReefFriendly?
Daniella	Griffey	dgriffey@gmail.com		I love coral!
TRIA	MOBLE	UNSTIEONFIZED@hotmail.com		KEEP OUR CORAL ALIVE!
Lauren	Roth			I love keely
Natalie	Mohner	NATALIE.MOHNER@gmail.com		To keep it blueeee
Arlean	Velasco	velascoarlean@yahoo.com		Coral rocks!
Dave	Nowman	Dcrash2000@yahoo.com		Sulba Instagra
Papa	Talenta	stakopak@hawaii.edu		No reefs = no waves!
Erica	AMMS	ericarvasamur@comcast.net		Keep our reefs alive!
Shali	Eric	surfershali@gmail.com		I love the ocean.
ASHLEY	MCCREARY	ivesengondraw@gmail.com	941122	To keep getting wet!
KE	Keris	ekeris@bard.surfnet.org		To protect what I love.
Kimi	Wernw	kimimw@comcast.net		To protect positively
Sarah	Wilcox	sarah@kimimw.com		To protect positively
Dave	Tolal	davidtolal@hawaii.edu		I love coral!
Carrie	Johnson	carriejohnson@hawaii.edu		To save the ocean + coral!

I Take the Pledge: Only #ReefFriendly Sunscreens



FIRST NAME LAST NAME EMAIL ZIP CODE Why do you pledge #ReefFriendly?

ANDRACE HORTONS ADOHAKUNISKE @HOTMAIL.COM 96761 / SAVE THE REEF / I ALWAYS IN THE WATER

CAROL BROWN CAROL BROWN MAUI @GMAIL.COM 76761 / Love to Ocean Front to help

ELLY FOREST ~~ELLY FOREST~~ ellyforest@hotmail.com 96761

BARRY BROWN ~~BARRY BROWN~~ barry@barrybrownmaui.com 96761

TOMMY GUTHRIE TOMMY GUTHRIE, COM

HELEN DRELANCI snorkelgrigs@yahoo.com 96753 - SAVE THE OCEANS!!

MARINELA GONZALEZ marinavela@gmail.com 96768

MARINA PEILA marinapeila@hotmail.com 96768

DEBRA DON debra.don@gmail.com 96753

PAUL GORISZ PAV @BESTNATION.HU 1.43+

TOM L. HILL Toml@smail.com

TERRY LOPEZ terrylopez808@gmail.com 96768

JOSH FRENBLAY joshfrenblay@gmail.com 96790 keep/preserve the ocean.

KARL SUTER Karler@gmail.com 96761

PAUL BOWERS paulbawers@gmail.com Clear H2O



I Take the Pledge: Only #ReefFriendly Sunscreens

FIRST NAME	LAST NAME	EMAIL	ZIP CODE	Why do you pledge #ReefFriendly?
Timothy	Baur	tbaur@lfla.com	94109	#Protectourreefs
Deborah	Davis	Debe.Mauk@HomeSearch.com		Protectourreefs
Paula	Lenny	paulalenny@aegmail.com		#saveourreefs
Louy	Drebedly	Suekame@pe@gmail.com		
Tim	Lasota	Tim_Lasota@yahoo.com		Save the Reefs + My Health
Breanna	Dore	breannadore@yahoo.com		^^^
Take	Manning	TakeManning122790@gmail.com		Protect the reefs beauty
Jeshna	Shetty	JeshnaShetty808@gmail.com		Keep reef clean
Kristina	Glanis	stinalucia@gmail.com		

I PLEDGE TO USE #reefFriendlySunscreen...

Lise Krivsky

LKrivsky@gmail.com

Rayton Lamoy

raytonlamoyentertainment.com

Vannarc Bond
MARIE MARTEL
Art Mallet

funsizejon@gmail.com
MARIE.MARTEL@XEROX.COM
Mallet.Arthur@gmail.com

EMail *

Jacquie Laird
Erasandvold

51airds@hawaii.rr.com

Kahala Schneider
Tina Larson
Shannon O'Neill

~~ESandvold@gmail.com~~
kschnei3@vols.utk.edu
TinaLarson23@gmail.com
jshannononeill@gmail.com

LIAT PARTNER
Nahoku Keala

partnerliat.ida@gmail.com
nahokukeala@gmail.com

ROB Lafontaine
Wilson Lau
INBAR Lange
Angie Dolan
Ryan Dolan
Maha Bayd
Tracy Griffin
Malia Gacutan
Julie Aio

robert.lafontaine@yahoo.com
Wilson808@gmail.com
INBARLANGE@hotmail.com
agiancate@gmail.com
ryan.dolan.kayak@gmail.com
mahabayd@gmail.com
coltjoey@gmail.com
mgacutan10pinahat.ist
mehanamui@yahoo.com



I Take the Pledge: Only #ReefFriendly Sunscreens

FIRST NAME	LAST NAME	EMAIL	ZIP CODE	Why do you pledge #ReefFriendly?
Rosie	Warfield	rosiewarfield@gmail.com	912817	save the reefs + the planet ☺
STEVE	MULLIGER	SMULLIGER@AOL.com	91672	SAVE THE REEFS!
Michelle	Nichre	MNICHTER@yahoo.com		SAVE OUR OCEANS! & Mother Earth
ANU	PAER	JANPA@130yapho		~ For the Corals! ~
Randi	Riggs	randsriggs@gmail.com	912717	To protect our reefs + fisheries!
Joni	Blodgett	joni.blodgett@gmail.com	9734	For the reefs.
Tanna	Neubauer	Tannandneubauer.com		save our reefs!
JOSH	LAG	hawnjosh@hotmail.com		for the reefs
Shakti	Mack	MackShakti@yahoo.com	33120	Save Meena Earth

I Take the Pledge: Only #ReefFriendly Sunscreens

FIRST NAME	LAST NAME	EMAIL	ZIP CODE	Why do you pledge #ReefFriendly?
Naomi	Iren,	Naomi and Iren naomiandiren@gmail.com	96192	Ocean health, kids health.
ZAZZY	Hubertano	zazzyhubertano@gmail.com	96792	Stay Healthy!
Bobbie	chung	richmondchung@gmail.com	96792	Mamae Henua!
Natu	Puu	Kaleikailias@gmail.com	96792	Mamae Henua!
Yemuca	Perkins	lorijalakeia@pacnet.net	96745	Mamae Henua!
Maeghica	Castillo	maegham.castillo@kupu.com	96816	I love the aina!
Fony	Schechter	Schechter	91360	ALOHA HUI LOA!
Tanya	Siemer	tanya.siemer@gmail.com	91360	To protect the Reef!
EMMA	Silva	malahsilva@gmail.com	91122	Clean health
Maria	Caro	caroamreid@gmail.com	91122	Ocean health
Claudia	Kavitz	wavocrazy@gmail.com	96712	Save our sun, world
JUDY	Kosaka	hewell88@gmail.com		To save the reef!
SKIN	Prira	decape@gmail.com	91360	To protect the Reef!
Budd	Mac	hkb515@gmail.com	91360	save the reef!
Leah	Bowen	budmacpherson@gmail.com	96792	SAVE the waves & fish!
		leahmakahoe@gmail.com	96792	save our oceans & sea life forever!



I PLEDGE to Use reef friendly sunscreen

First Last	Email
RILEY MARTINEZ	rileymartinez1000@gmail.com
MIKE NAKAOKA	mnakaoka@punahou.edu
SYLVIA AKAKA	fashionmomof3@gmail.com
Jack Lyons	jlyons23@punahou.edu
Roger Lyons	rlcbhawaii@yahoo.com
Kaimana Drago	kdrago14@punahou.edu
Scott Nakachika	SNakachika18@punahou.edu
Rachel Lee	ESL 1901 @iolani.org
Adam Krivatsy	akrivatsygames@gmail.com
Seanna Glatzel	seanna.glatzel@gmail.com
ALEX KELLY	alexgracekelly@gmail.com
Sylvia Buck	Sylvia2006@gmail.com
Jen Lee	jen.lee@icloud.com
Kenneth Nguyen	KDN 1901@iolani.org
Gunnar Grune	ggrune20@punahou.edu
Kris Nakaoaka	krisnakaoaka@yahoo.com
Akea Kahikina	akeakahikina@yahoo.com
Konane DeRyke	konanejehawaii-rr.com
Jerone Jennings	jerone.juno.com
Nakana Shipman	kshipman19@punahou.edu
Dilyn Lietzke	dlietzke20@punahou.edu
Mimi Moody	mfm2001@iolani.org
Tasia Gentry-Balding	tkaipualani@gmail.com
Tehina Kahikina	tkahikina18@punahou.edu
Kobey Damon	Kobey Damon@yahoo.com
Kaimana Balding	kaimanaBaldina@gmail.com
WYATT YEE	wytrout@gmail.com
BILLY BALDING	allgood4u@gmail.com
Donna Donna Glatzel	donna.glatzel@gmail.com



I Take the Pledge: Only #ReefFriendly Sunscreens

FIRST NAME	LAST NAME	EMAIL	ZIP CODE	Why do you pledge #ReefFriendly?
Maria	Silva	no.maria@okla.gov, 21465040		Yes
Deanna	Evans	lauraj@e.lavinia@123456		Yes
Tara	Feldman	ten67056@bigband.com		Yes
Matt	Vasco	math.feldman@gmail.com		Yes
Miriam	Conti	miriamvasco@gmail.com		Yes
Bree	Nieze	breecont@yahoo.com		Yes
Shae	Nieze	Shaebird10@gmail.com		Yes
Hank	Nieze	Hanknieze@gmail.com		Yes
Ansley	Boyer	nieze.ansley@gmail.com		Yes
Cindy	Boyer	c168619@gmail.com		Yes
Serge	Rausch	Serge.rausch@yahoo.com		Yes
Riccielli	snikos	riccielli2611@gmail.com		Yes
KRIS	MILLER	knillers391@gmail.com		Yes
KURT	Miera	Miera.Nicholas@gmail.com		Yes
Kyle	Carr	The power of man@yahoo.com		Yes
Maricela	Pepin	maricelapepino@redken.com		Yes
Gustavo	Neque	Gustavo.neque@hotmail.com		Yes

I Take the Pledge: Only #ReefFriendly Sunscreens



FIRST NAME	LAST NAME	EMAIL	ZIP CODE	Why do you pledge #ReefFriendly?
Jeff	Vance	Jeff Vance 86	96744	As a diving professional I am intimately aware of damage to the reef.
Karlton	Reinura	Karlton Reinura@gmail.com		To protect the reef.
Bruce	Naloni	gnifyfoth4life@yahoo	96762	vice up than protect reef.
Gemmie	Alotasi	calotasi1@gmail.com	96717	To help the reef recover
Heidi	Andrews	heidi.SD.Scott@gmail.com	96817	protect ocean.
PHINA	WNS	fnecappleprawn@gmail.com	96744	
Jeanette	Nakagawa	kehuamari.garcia@gmail.com	96744	Protect the reef, have less chemicals
Tylen	Chobee	dylceobie@gmail.com	96821	Wife of Dr. Aron of Kaiser
Carman	Malinis	carmanmalinis@gmail.com	96816	- Love ocean



I Take the Pledge: Only #ReefFriendly Sunscreens

FIRST NAME	LAST NAME	EMAIL	ZIP CODE	Why do you pledge #ReefFriendly?
Larissa	Oishi	larissano8d@yahoo.com	96825	
Fee	CURRAN	dfcurran@gmail.com	96835	
Paul	Balazs	Phybalazs@gmail	96825	responsibility
Nata	Gaugler	atztaugler@gmail.com	96825	BAN OXYBENZONE!!!
Isabel	Gangali	maseel@hawaii.edu	16825	I love the Ocean!!!
Glenn	Mercate	glenn@eoi.ohiowest.com	96815	We live Hawaii
Erin	Dilbaugh	bdilbaugh@gmail.com	96816	We love coral and fisher
Logan	Gates	logan.gates.4@hawaii.com	96825	Love the ocean!
Jill	NURPHY	kealahonuu2000@gmail	96825	BAN OXYBENZONE
Sue	Choujorn	suec@speakers.net	96821	
Tommy	WATERS	tommywaters@hawaii.rr.com	96816	
PETE	MARR	ebeachboy@yahoo.com		
DANIELLE	Curha	dfcurha98@gmail.com		
Reiko	King	king0709@yahoo.com		
Orin	Devent	orinden@hawaii.rr.com		
Anke	Roberts	anke_roberts@hotmail.com	96825	
Cindy	Staples	stapleshi@gmail.com		



+ Reef Friendly

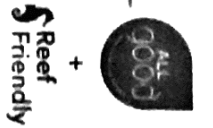
I Take the Pledge: Only #ReefFriendly Sunscreens

FIRST NAME	LAST NAME	EMAIL	ZIP CODE	Why do you pledge #ReefFriendly?
Magnan	DOROSY	m.dorosy@gmail.com	96712	BECAUSE ITS KILLING THE OCEAN LIFE & WEACHING OUR BEAUTIFUL REEF
Adrian	Adrid	adridadrian@gmail	96712	Reefs are important
Andrew	Dorosy	dorosy97@gmail	91214	I like reefs & fish
Tracy	Chancellor	tracychancellor@gmail	87529	love Da Bees
Anna	Chamberlain	chamberlain@att.net	2516	I like reefs
Kelisa	Sankey	kelisa@innwilt.com	91115	I love reefs
John	Charlbel	john@jake.com	2516	Save reefs
Gary	Richards	g.richards@gmail.com	91498	Reef protection
Sophia	Hansen	kerrihansen@gmail.com	89511	I love fish and they are Super beaut, Al
Alyson	Robert	robert.alexander@gmail.com	9109	Ocean is my house
Lynsey	Thel	thel22@gmail.com	92109	100%
Genevieve	Foxes	enivofoxes@gmail	92109	yes!!!
Elaine	Chamberlain	lynnda-chamberlain@del.net	2516	love the reef
Michael	Stumpfberg	michael.stumpfberg@att.net	9109	don't want the ocean to die! save reefs
Andrea	Ward	ward.simond@att.net	9055	love the ocean
Miley	Bowman	mileykidy@att.net	68169	I love the OCEAN

ABEAR Coral Reef Friendly Sunscreen
 Take the Pledge: Only #ReefFriendly Sunscreens
 Kealin

FIRST NAME LAST NAME EMAIL ZIP CODE Why do you pledge 'Reef-Friendly'?

Louisa	Nyam	honeygirlwaterwear@gmail.com	96835	Protect our reef for the next generations
Erick	Reel	Akenpo25@yahoo.com	90815	Protect the reef!
Bullet	Obae	Mulaka154@gmail.com		
Vilani	Afatao	vilaniafatao@gmail.com	96789	the reef!
Kimmy	Silva	Kimmy.Silva@gmail.com	96789	Making the world of our reef!
Lei	Hamington	with.hamington82@gmail.com		! 967099
KRIS	ROBINSON	CR0EIN808@gmail.com	96712	
Zane	Schweitzer	Zaniora2@gmail.com	96961	Malane ke kai! (also I have had Melema)
Natalia	Ballester	nathb247@gmail.com	11367	Protect the REEFS!
Jasmine	JONES	jasminejonesobegmail@gmail.com	96815	Protect the reef + my sea friends!
Morgan	FOGARTY	mof37@gmail.com	97211	Protect the sea farm and my bod!
Tiana	POWELL	tianampowell@uiowa.edu	96993	Protect the Oceans! Keep our reef healthy
Bill	JOHNSON	bill-johnson@hotmail.com		Protect reefs
Jon	Johnson	johnsonjon@protonmail.com	98029	Protect the reefs + people!
Kevin	Patrick	Kepartack715@gmail.com	92024	Protect reefs
Daniel	Tsironas	daniel_tsironas@yahoo.com		Protect Reef



Wm Wm Wm Wm

Wm

Wm Wm Wm Wm



I Take the Pledge: Only #ReefFriendly Sunscreens

FIRST NAME LAST NAME EMAIL ZIP CODE Why do you pledge #ReefFriendly?

Rinnve Tsimmerman rinnve.drogil@com HS2251

E Fratin Tsimmerman etsimmerman@rogers.com

Pete Persolja peterpersolja@hotmail.com
Jordan Guivard jordanmgui@delagrad.com 92672

Rog Cadelera AhCadelera@gmail.com
CANSSEA De laun cnelire@northville.com

EMTA Tsimmerman emta_29@earthlink.net → HS2251
Jone Stahl jonestahl@hotmail.com

Simon Huder simonhuder@gmail.com

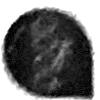
B. Thom jahnermusic@gmail.com

Culho Stan slen echogshen@gmail.com 07302
SEAN WAYLAND sean.wayland@gmail.com

Jeff Phillips jph851@gmail.com 10026 San raf

Kris Sotkaye krisotkaye@gmail.com 96751

Jules Fenberg jules@fenberg.com 96712 Save reef



I Take the Pledge: Only Reef-Friendly Sunscreens

Name	Brand	Product Name	Reef-Friendly?
Thorne	Sunin	re-usable 1.2oz tube	yes
James	Body	budget e low water	yes
Tom	Ends	Ter 6708 & hybrid can	yes
Math	Feldner	multi-chemical	yes
Anna	Winn	reusable 8oz tube	yes
Bree	Conti	brecented ya had can	yes
Suzie	Conti	Shae bird 10oz spray can	yes
Frank	Winn	reusable 8oz tube	yes
Freedy	Winn	reusable 8oz tube	yes
Condy	Bayce	elbe 17oz spray can	yes
Suzie	Winn	reusable 8oz tube	yes
Ryan	Winn	reusable 8oz tube	yes
Friz	Winn	reusable 8oz tube	yes
Kier	Winn	reusable 8oz tube	yes
Anna	Winn	reusable 8oz tube	yes
Naivela	Winn	reusable 8oz tube	yes
Gustavo	Winn	reusable 8oz tube	yes

SSK 2205 (month)



+ Reef Friendly

I Take the Pledge: Only #ReefFriendly Sunscreens

FIRST NAME	LAST NAME	EMAIL	ZIP CODE	Why do you pledge #ReefFriendly?
Laura	Phillips	L.P. 128@gmail.com	20002	
Alex	Remington	oxyphenylswe/ie.com	20007	
TARA	Lif	Tasha111@gmail.com	NOPOA7	yes!
Robbz	Heavynose	214tinlepre@gmail.com	96712	S/P
LINDY	Upton	Lindy Upton@gmail.com	96712	yes
IVAR	CHRISTENSEN	IVARHC@GMAIL.COM	97210	HEALTHY!
Monique	Cole	808 10th St Boulder CO	80302	monique@moniquecole.com
Katrina	Miskin	808 10th St Boulder CO	80302	Katrina@miskin.com
RAY	Peas	ipeas@gmail.com	6530	
AMANDA	MANN	amandamann@earthlink.net	036	YES!
Amanda	Niles	amandamann@earthlink.net	036	yes!
Mackenzie	Feldman	kenzief83@gmail.com	46825	yes!
Emily	Shults	emily.shults@gmail.com	30075	yes!
Leo	Bueno	leobueno@earthlink.net	92101	yes!
Sverker	NORBERG	sverker.norberg@gmail.com		
ELIN	NORBY	elin.norby@gmail.com	97103	yes
Nick	Alvarez	alvarez.nick@gmail.com	45442	YES!

I Take the Pledge: Only #ReefFriendly Sunscreens



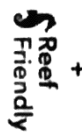
FIRST NAME LAST NAME EMAIL ZIP CODE Why do you pledge #ReefFriendly?

Benny	Hansen	gvhrende@gmail.com	89571	Non toxic - protect environment.
Noranne	Sanders	NSanders@Stix.com	5406	SAVE THE OCEAN!!
Tori	Brooklyn	toribrooklyn@gmail.com		<u>Save the ocean</u>
McKinley	Kate	mcKinleymk@aol.com		for my son
Chris	Coastal	coastal@gmail.com		
Bright	Coner	coner19@gsnail.com		

I Take the Pledge: Only #ReefFriendly Sunscreens



FIRST NAME	LAST NAME	EMAIL	ZIP CODE	Why do you pledge #ReefFriendly?
LOUIS	CONCATO	LOUIS.CONCATO@SMITHSONIAN.GOV	96815	I WANT TO PROTECT EVERY PART OF THE PLANET
Sophia	Mendoza	SophiaM39@gmail.com	96818	Protect the environment!
Debra	Bladen	djr8055@gmail.com	96822	Protect the environment!
Sophia	Paniel		96825	Protect the reef and the environment.
SAUDY	TSUSIMURA	saudytsusimura@pohs.com	96789	Future generations enjoy
Alice	YIM		96817	protect the reef
JEM	NG		96817	protect the reef
JAMES	MCCAY	THOMAS.MCCAY@MALAWA.COM	96815	Ben Sur!
Elizabeth	Dunne	elizabethdunne@hotmail.com		
Elise	Margie	elisekennedy@gmail.com	96812	save the fish & more!
Jessica	Lia	jess.j.lia@gmail.com	96814	save the environment!
Paul	izak	paulizak@msisigmail.com	96795	Malawa da Aliwa
Pam	Shubel	Pam.hubel@gmail.com	96792	protect the reef!
Karen	Hobbs	karen_hobbs@hotmail.com	96797	Protect the reef.
Becca	Shery	mwoney@gmail.com	96818	☺
Nick	Shery	nmoney@gmail.com	96818	☺
Kim	McMullen	lomonmullen@gmail.com	96734	Yes!



I Take the Pledge: Only #ReefFriendly Sunscreens

FIRST NAME LAST NAME EMAIL ZIP CODE Why do you pledge #ReefFriendly?

Susan Lamb susla@aol.com 96825

Megan Viernes meganviernes2@gmail.com 96825 I care for the environment! ☺

Leinala Hae leihaae@live.com 96825 If the oceans die, we die

RENÉ Morgan oahuocshoebboxes@gmail.com 96734

Brigid O'Meara brigid.o'meara@gmail.com 96825 Keep our waters clean!

Radhka Martin radhakamartin@gmail.com 96825 Keep reefs alive for longer environment + beauty!

Kepile Cianci's kepil@g7od.com 96825 save the reef!

Samantha Steenhuis steensam114@gmail.com 96825 I LOVE the ocean!!

I Pledge to use REEF Friendly sunscreen... forever+EVER:)

- ITZI Holland itzi@holland808@gmail.com
- Kaiona Holland kaionaholland@gmail.com
- Alina Holland keitholland@simmerhavaii.com
- Lee HARRISON luc3369@shaw.ca
- SARAH WITZEL SNUTTALL@OUTKAI.COM
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- Jim Roshage jhrshage@yahoo.com
- JANELLE RABOLD JANELLE@yahoo.com
- JAY LEE maviselhyok@hotmail.com
- JINNI LEE muikainini@hotmail.com
- KOULI SMUA Bayton HI KOUALI@gmail.com
- Naiana Holland keitholland@simmerhavaii.com
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- PAULCHANN emmanemagineit@gmail.com
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- Courtnay Ancherster mkerandkunt@aol.com
- Melita Badley melgabudley@gmail.com
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- Alexa DeJice Alexadejice88@gmail.com
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- Juicy jpucesmeyer@aol.com
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- Bair Green blairgreen@gmail.com
- Toni's Green kgant@gmail.com
- Allyson Lauani karahlu2@aol.com
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- Fran Muiwa frankmuwa15@gmail.com
- Glase Curitt product-music@yahoo.com
- Shane Faust stevetunk@aol.com
- Harris on Tiki htiki1.sound@gmail.com

*note: please
don't use
extreme
suns

*make
sure

Michele Strain	MStrain55@gmail.com
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Joyce Skinner	joyceskinner1@gmail.com
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Felken Jones	alohamaranda@gmail.com
ANANDA HOSIUS	Teresa@accinternational.us
Teresa	David H

▼

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I PLEDGE to use Reef Friendly Sunscreen ^{FOR EVER} ... _{EVER}

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Taylor Empire hbayne11@att.net

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Joan Powers jcpwrs84@gmail.com

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Clay Rogers
Shep Brown
Judie Nivon

PAH! Curran

Ryan Cook

Lorelei Sunshine

Denod Spied

Lee Hynard

Christine Hanson

Dense Dym-Citric

Jackie Smith

Yuhan Lau

Shona Thomas

JEFF JANDVICH

E-L Akke

Nidrik Johnson

Jena Peterson

Towako Okazaki

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ELIZABETH.FURE@GMAIL.COM

LEWHITTT@MSN.COM

STANUP@GMAIL.COM

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SB-2571-HD-1

Submitted on: 4/3/2018 11:25:26 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
robert brower	surfrider foundation kauai chapter	Support	No

Comments:

surfrider foundation kauai chapter expresses strong support for the passage of this important bill. mahalo



TO: Honorable Chair Luke, Vice Chair Cullen, and Finance Committee Members, 4-4-18, 2:30 p.m.

SUBMITTED BY: Keith Dane, Hawaii Policy Advisor, State Affairs, Humane Society of the United States, kdane@humanesociety.org, Tel: 301-312-1489; and Teresa M. Telecky, Ph.D., Vice President, Wildlife, Humane Society International, ttelecky@hsi.org, Tel: 301.258.1430

RE: SUPPORT for SB 2571, SD2, HD1, Relating to Water Pollution

The Humane Society of the United States (HSUS) and Humane Society International (HSI), support SB 2571, SD2, HD1 which would, if enacted, prohibit the sale, offer for sale, or distribution for sale of non-prescription SPF sunscreen products containing octinoxate or oxybenzone, or both, unless the product is sold or distributed to fulfill a prescription. We thank the Committee for addressing this important matter that affects Hawaii's nearshore coral reefs.

Numerous studies have shown that oxybenzone in the marine environment can be harmful to coral reefs and marine life (Kim et al. 2014; Kim & Choi 2014; Tsui et al. 2014; Downs et al. 2015). These studies clearly indicate that oxybenzone poses a risk to fishes, through endocrine disruption and reproduction performance, for example, and to hard corals through bleaching. These threats are heightened in marine recreational areas frequented by beach goers, swimmers, snorkelers and divers whose sunscreen washes off when they enter the water. Worldwide, it is estimated that 90% of snorkeling or diving tourists are concentrated on 10% of the reefs (US National Park Service). Hawaii's Marine Life Conservation Districts (MLCDs) have an abundance of fishes compared to the majority of the state's reefs which are severely depleted. This abundance of wildlife is a major draw to tourists and, Hawaii's most beautiful and popular reefs are likely exposed to the most sunscreen pollution.

It has been estimated that 4,000 – 14,000 tons of sunscreen enters coral reef areas around the world annually (U.S. National Park Service, Downs et al. 2015). Surveys around Hawaii's coral reefs found oxybenzone levels at concentrations 12 times higher than the level at which it impacts juvenile coral (Downs et al. 2015).

The unprecedented coral bleaching events of 2014 and 2015 had devastating effects on

Hawaii's corals. A 2016 report by The Nature Conservancy found of 32 – 90% of bleached coral colonies died in some West Hawaii areas. New research shows that by mid-century, coral reefs will annually experience the heat stress that causes bleaching, and the authors conclude that the future conditions of reefs depends on both the reduction of global emissions and our capacity to build resilience to bleaching through management of local stressors (Hughes et al. 2018). Though sunscreen toxins, such as oxybenzone and octinoxate, may be just one of many stressors impacting Hawaii's coral reefs, the inevitability of future ocean warming events and subsequent coral bleaching makes it imperative to reduce the stressors to corals and increase their potential to recover and survive.

HSUS and HSI have previously submitted testimony in support of HB 2264, a bill which would have similarly prohibited the sale of the same products which this bill addresses, however that legislation included a penalty of a petty misdemeanor for a violation of the section. We suggest that SB 2571, SD2, HD1 be amended to include the same penalty, and sincerely thank the Committee for taking up this important matter. ***We urge the Committee to amend and pass SB 2571, SD2, HD1*** which will help reduce SPF sunscreen pollution and harm to Hawaii's coral reefs and wildlife.

Thank you for this opportunity to provide testimony.

SB-2571-HD-1

Submitted on: 4/3/2018 10:09:46 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Colleen Y. Wallis	Kahalu'u beach reef Teach	Support	No

Comments:

I have been a volunteer at Kahalu'u beach since 2010 and we have been there trying to protect the coral and marine life in the bay. The use of harmful chemicals on sunscreen have caused much of the coral to die off and we have even been providing safe sunscreen to our visitor so they do not need their own sunscreen. Please support the ban on harmful sunscreens,

SB-2571-HD-1

Submitted on: 4/3/2018 6:15:12 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Samantha Steenhuis	Kaiser High School Student	Support	No

Comments:

I support this bill to pass oxybenzone because of how it affects our reefs. I love being in the ocean and have learned of oxybenzone's potential to alter the hormones in fish and bleach the coral. I am a student at Kaiser High School who has worked to create a sunscreen exchange in the Hawaii Kai community and it would be amazing if this bill passes so more people can understand the harmful effects of the chemical. Sunscreen is also an easy thing to switch out to better alternatives such as Zinc Oxide.

Mahalo for your time and I urge you to pass this bill for the sake of our reefs



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TO:

COMMITTEE ON FINANCE

Rep. Sylvia Luke, Chair

Rep. Ty J.K. Cullen, Vice Chair

DATE: Wednesday, April 4, 2018

TIME: 2:30 P.M.

PLACE: Conference Room 308

FROM: Hawaii Medical Association

Dr. Christopher Flanders, DO, Executive Director

Lauren Zirbel, Community and Government Relations

Re: SB 2571 RELATING TO WATER POLLUTION

Position: Oppose

The HMA agrees with the position of the Hawaii Skin Cancer Coalition, and would like to highlight the comments they provided in their Star Advertiser editorial:

...The 25-member organizations of the Hawaii Skin Cancer Coalition — including physicians, nurses and cancer researchers — is concerned that the [bills] are based on misrepresentation of the current science surrounding common chemicals in sunscreen and their link to coral reef damage.

We agree that damage to coral reefs is precipitated by human interaction; but the primary sources of this damage are not swimmers wearing sunscreen, but rather land-based source pollution (e.g. industrial waste), over-fishing, invasive species and climate change. In fact, the foundational studies that report reef effects of oxybenzone and octinoxate (by Henry Lim in 2016, Sujin Kim in 2014 and C. A. Downs in 2014) were conducted in laboratory settings and do not test the actual risks to coral in a natural setting. One study even states that the sample obtained for testing from Hawaii's coral reefs had minimally detectible levels of oxybenzone and octinoxate (Downs 2014).

HMA OFFICERS

President – William Wong, Jr., MD President-Elect – Jerry Van Meter, MD Secretary – Thomas Kosasa, MD

Immediate Past President – Bernard Robinson, MD Treasurer – Elizabeth A. Ignacio, MD

Executive Director – Christopher Flanders, DO



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Morbidity and deaths from skin cancers are on the rise in the U.S. and Hawaii. The current focus of Hawaii's legislative policy limiting sale of sunscreen products will undermine years of progress toward addressing the effects of unprotected sun exposure, a primary risk factor for skin cancer.¹

The HMA would like to note that the standard of evidence usually followed before policy changes are implemented based on research, is that a study be replicated. The methodology used for this study is highly suspect and the large body of evidence about coral decline indicates that increasing water temperature is the major cause.

A more rigorous standard must be met before we endanger human lives. According to the National Cancer Institute, nearly 5 million people in the U.S. are treated for skin cancers each year, at a cost of over \$8 billion to our health care system. Melanoma, the deadliest form of skin cancer, is now the second most common form of cancer for females aged 15-29 years old. Each year more than 10,000 people die of melanoma. The best sunscreen is the one people wear. Most people prefer to wear sunscreen that is easy to rub in and rubs in clear.

Please work with the medical community to help save lives, please vote no on this bill.

¹ <http://www.staradvertiser.com/2018/03/29/editorial/island-voices/sunscreens-save-lives-have-limited-impact-on-coral-reefs/>

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April 3, 2018

To: The Honorable Sylvia Luke, Chair
House Finance Committee on Finance

From: Tim Shestek
American Chemistry Council

Re: **SB 2571 SD 2 HD 1 – OPPOSE**

On behalf of the American Chemistry Council (ACC), I am writing to express our opposition to SB 2571 SD 2, HD 1, legislation that would ban non-prescription sunscreens containing octinoxate or oxybenzone.

Oxybenzone and octinoxate are effective active ingredients in over-the-counter sunscreens approved by the U.S. Food and Drug Administration (FDA). These products are designed to protect skin against the damaging effects of ultraviolet light.

The FDA, the Centers for Disease Control and Prevention (CDC), the U.S. Surgeon General, the American Academy of Dermatology (AAD), the Skin Cancer Foundation and health care professionals worldwide emphasize that using sunscreens is a critical part of a safe sun regimen. The dangers of sun exposure are clear and universally recognized by public health professionals and dermatologists. The National Institutes of Health Report on Carcinogens identifies solar UV radiation as a “known human carcinogen.” A single bad burn in childhood doubles the risk of developing skin cancer later in life.

ACC shares the concerns regarding the threat to the world’s coral reefs. Climate change and ocean warming are the most notable culprits for reef bleaching. According to the U.S. National Oceanic and Atmospheric Administration’s (NOAA) Coral Reef Conservation Program, coral reefs are impacted by an increasing array of hazards, primarily from global climate change, ocean acidification, and unsustainable fishing practices.

This legislation, although well intended, lacks sufficient scientific evidence demonstrating that this sunscreen ingredient is responsible for coral bleaching. Moreover, this legislation could create consumer confusion and unnecessarily put consumers at risk by discouraging the use of sunscreen.

Thank you for the opportunity to share these comments. Should you have any questions, please do not hesitate to contact me or ACC’s Hawaii based representative Ross Yamasaki at 808-531-4551.



Testimony for Sunscreen Ban Bill

Today, more than 70 percent of all sunscreens contain the critical ingredients oxybenzone or octinoxate for a good reason: they provide the vital broad-spectrum protection for high SPF sunscreens to block both UVA and UVB ultraviolet rays that can cause skin aging, skin damage, and skin cancer. These medical ingredients are proven safe and effective, and are critical for skin cancer prevention. It's not just the FDA, CDC, Hawaii Department of Health, American Cancer Society, or American Academy of Dermatology, and the Hawaii Dermatological Society who understand the importance of sunscreens. Please also consider the 2 out of 3 people in Hawaii who say they use sunscreens, and the 4 out of 5 Hawaiian parents who use sunscreen to protect their children, in addition to the over 9 million visitors who come to Hawaii from around the world each year.

The very limited and questionable science that falsely accuses sunscreens for reef damage is dwarfed by volumes of local and international studies about the real threats to reefs which you stated yourselves: sewage, pollution, and climate change. How is it that Midway island reef suffers the same damage that Oahu has without the population. Recent independent studies of Oahu coastal waters have shown the levels of oxybenzone to be in the range of 1-2 parts per trillion, far below the levels that the laboratory study showed causing reef damage. We believe there is error in the sampling of the water in the original studies. The tests need to be confirmed. We need legislative action to address the real threats not theoretical threats? Mr. Downs has also suggested that the estrogen from the urine of women taking birth control pills that is going into our sewer system and ultimately the ocean is having an impact on the coral reef.

An arguably more important concern is the indisputable evidence that links the tragedy of sun exposure to the epidemic of skin cancer including melanoma, resulting in health care costs escalating and in some cases death. A ban on these sunscreens in Hawaii – the state with the highest daily UV index warnings and very high rates of skin cancer and melanoma – would be best to address the real threats to reefs and a public health disaster. In addition, a ban on these ingredients may result in a stigma against all screens. This could result in the reduction in use because of concern for the environment by the public, a significant risk to the health of our citizens.

I would also urge the legislature to consider the cost of implementation of this ban to the people of Hawaii. A force to inspect retail outlets, hotels and incoming passengers to prevent the sale would be very costly.



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TO:
Committee on Finance
Rep. Sylvia Luke, Chair
Rep. Ty J. K. Cullen, Vice Chair

FROM: HAWAII FOOD INDUSTRY ASSOCIATION
Lauren Zirbel, Executive Director

DATE: Wednesday, April 4, 2018
TIME: 2:30pm
PLACE: Conference Room 308

RE: SB 2571 Relating to Water Pollution

Position: Oppose

The Hawaii Food Industry Association is comprised of two hundred member companies representing retailers, suppliers, producers, and distributors of food and beverage related products in the State of Hawaii.

The HFIA proposes that since this bill would ban many products that are used to prevent skin cancer, that a higher standards of review should be conducted to ensure that taking this action would indeed improve outcomes for reefs. The State of Hawaii recently conducted an information review from top Hawaii scientist studying our reefs. The presenters discussed, increased water temperatures, run-off, sewage and overfishing. Not one of Hawaii's top reef scientists mentioned sunscreen as an issue.

A new study released on March 1, 2018 on the human and natural impacts on coral reefs¹ used 10 years worth of data to learn about what is negatively affecting our reefs. This study concluded that overfishing, sedimentation, coastal development, and runoff are the biggest threats to Hawaii's corals. The study did not cite any sunscreen ingredients as posing dangers to our reefs.

1 <http://www.hawaiinewsnow.com/story/37628769/researchers-map-out-the-impact-of-humans-environment-on-hawaiis-coral-reefs>

Advancing the integration of spatial data to map human and natural drivers on coral reefs
<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0189792#sec012>

The methodology of the study used to justify this bill is contested by other UH scientists.² The study has not been replicated, likely due to its flawed methodology. There is no evidence to indicate that preventing people from wearing life-saving sunscreen will improve outcomes for reefs. In fact there is an overwhelming body of evidence indicating that coral bleaching is caused by increased temperatures, overfishing, sewage leakage (such as injection wells), and runoff.

This measure will hurt local retailers by encouraging consumers to buy their favorite sunscreens online, where it is unlikely this law will be enforceable. The promotion of this bill will adversely impact human health, serving only to deaminize wearing sunscreen, and increase peoples risk of skin cancer.

We care about offering products individuals feel comfortable with and which are affordable for use on a daily basis to prevent skin cancer. Many products that have sun protection factor, such as lotions, tinted moisturizers, and anti-aging products are intended for daily use in small amounts. These products are not used in large quantities anywhere near the ocean. However, all of these products would be unnecessarily banned under this bill, as would other federally approved and regulated healthcare products. Having access to these products is especially important here in Hawaii where the rate of skin cancers, including deadly melanoma, is significantly higher than on the mainland.³

Given that this ban would not do anything to alleviate the known primary causes of coral bleaching, and that it would deprive people of products they use to prevent possibly life threatening skin cancers, we do not think the potential benefit is worth the risk and we ask that this measure be held.

Thank you for the opportunity to testify.

² <http://www.staradvertiser.com/2018/03/29/editorial/island-voices/sunscreens-save-lives-have-limited-impact-on-coral-reefs/>

³ <http://www.staradvertiser.com/2018/02/28/editorial/island-voices/heathy-people-healthy-places-include-sunscreen/>

SB-2571-HD-1

Submitted on: 4/3/2018 9:18:58 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Neil Ishida	ABC Stores	Oppose	No

Comments:

TESTIMONY

COMMITTEE ON FINANCE

Representative Sylvia Luke, Chair

Representative Ty J.K. Cullen, Vice Chair

Wednesday, April 4, 2018, 2:30 PM

Conference Room 308

State Capital

Aloha Chair Luke and members of the Committee on Finance

ABC STORES OPPOSES SB 2571 SD2 HD1 Relating to Water Pollution.

My name is Neil Ishida, Director of Public Relations of ABC Stores, a local company doing business in Hawaii for over 60 years, with over 60 stores statewide. ABC Stores employs over 1,700 employees Statewide, including Guam, Saipan, and Las Vegas.

ABC Stores have supported many initiatives that preserve and protect our environment. However, we need to maintain a fair balance regarding the environment, sunscreen, and the health and wellbeing of individuals.

While multiple factors are contributing to the damage of our reefs, the current scientific evidence on the effects of oxybenzone on coral reefs is not sufficient to establish a link. The only study claiming oxybenzone could be harmful to coral is based upon laboratory research, which does not accurately simulate the complex natural marine environment.

In a recent study, the National Oceanic and Atmospheric Administration (NOAA), did not mention sunscreen as a cause of coral reef decline, instead cites increased ocean temperatures, storm-generated runoff, overexposure to sunlight, and extremely low tides as contributors to the problem of coral bleaching.

Oxybenzone is one of the few FDA-approved sunscreen ingredients that provides broad-spectrum protection from the sun's harmful UVA and UVB rays. UVA damages deeper layers of the skin and contributes to the development of melanoma, the deadliest form of skin cancer. UVB is the primary cause of sunburn and plays a key role in the development of skin cancer in the skin's more superficial layers. In addition, both types of rays can cause suppression of the immune system.

Banning oxybenzone will run the risk of people no longer wearing sunscreen capable in providing broad-spectrum protection from UVA and UVB rays, thus increasing their chances of skin cancer.

This ban will also penalize those who do not go to the beach but use sunscreen on a regular basis like hikers, golfers, tennis players, and joggers to name a few.

Thank you for the opportunity to submit testimony on this bill.

SB-2571-HD-1

Submitted on: 4/3/2018 9:53:37 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Karen Abe	Individual	Support	Yes

Comments:

SB-2571-HD-1

Submitted on: 4/2/2018 11:12:23 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Tabatha Aiko Knudson	Individual	Support	No

Comments:

Dear Committee,

My name is Tabatha Knudson, and I am 17 from Kaiser High school. I have been surfing for over 10 years. During that time, I used products containing oxybenzone and octinoxate. However, it wasn't until a few years ago that I learned about the harmful effects of these chemicals, not only on my skin but, also on our marine ecosystems. Over the course of only ten years, I have witnessed the gradual decay of the marine life and reef. In Waikiki, the water is murky and dirty, with few animals in the area. Hawai'i is supposed to be known for its lush mountains and pristine beaches; but once a tourist looks underwater, they are utterly disappointed.

Not only is it our responsibility, as Hawai'i citizens, to take care of our 'aina, but it is also our responsibility to preserve the culture. The toxic effects of oxybenzone and octinoxate are ruining our oceans and beaches; its marine life, spiritual symbolism, and purpose are being disregarded and destroyed. Once our reefs die, surfing will become more difficult and the sport may begin to dwindle.

As a surfer and citizen of Hawai'i, it is extremely painful to watch our beautiful environment worsen. However, there is a solution. More people need to be educated about the effects of their products on their body and the environment. After I learned about the harmful effects of oxybenzone and octinoxate on our reefs, I immediately switched to sunscreens without these chemicals. It was not hard; many sunscreen companies made other sunscreens that did not contain oxybenzone and octinoxate. However, since most of Hawai'i's traffic is from tourists, it will be incredibly difficult to educate them into choosing a sunscreen without harmful chemicals.

By prohibiting the sales of products containing oxybenzone and octinoxate, we will be able to slow down the effects of these chemicals on our environment. Changing the products that we would be able to buy would have a minimal effect on the consumer, as both products would work equally as well. This bill would kill two birds with one stone; encourage consumers to switch to less harmful products, and improve/preserve our environment.

Overall, this bill would be incredibly effective and beneficial for tourists, citizens and the environment. As I am still in my youth, I hope to be able to return to a version of Hawai'i

in 50 years where the water is bluer, marine life is flourishing, and harmful chemicals are rarely found. However, without new laws and change, Hawai'i will only worsen more rapidly.

Thank you for giving me the opportunity to say my opinion.

Tabatha Knudson

SB-2571-HD-1

Submitted on: 4/2/2018 5:18:18 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Susan Varsames	Individual	Support	No

Comments:

Aloha, I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and specifically corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i.

Please remember that our fishing industry and restaurant industry will suffer when people realize thses chemocals are hormone disruptors and that the fish contain the chemicals too.

Our fertility is miscarraige rate is effected as well.

We are poisoning our waters and 70% of our oxygen comes from the reefs and sea grasses. Maui used to be covered in seaweed and it no longer is. due to rising temperatures and chemicals that cholke the oxygen levels

There are so many safe alternatives, there is no reason to keep oxybenzone in our productws other than corporate greed.

....Mahalo.

SB-2571-HD-1

Submitted on: 4/2/2018 3:06:30 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Rene Umberger	Individual	Support	No

Comments:

SB-2571-HD-1

Submitted on: 4/2/2018 3:56:16 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Douglas Perrine	Individual	Support	No

Comments:

Please pass SB2571 to restrict the sale of sunscreens that contain chemicals that are harmful both to the marine environment and to humans as well. Please move the effective date forward at least a year (i.e. to 2020 or earlier). Mahalo.

SB-2571-HD-1

Submitted on: 4/2/2018 4:01:24 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Cynthia Punihaole Kennedy	Individual	Support	No

Comments:

Research shows these two chemicals are harmful to our reefs. Please approve this bill and change effective date from 2021 to 2019.

Mahalo

Cynthia Kennedy

SB-2571-HD-1

Submitted on: 4/2/2018 4:05:56 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jenny Yagodich	Individual	Support	No

Comments:

Aloha,

Please pass SB2571. With thousands of tourists entering our fragile marine environment every day all throughout Hawai'i, the cumulative effect oxybenzone and octinoxate are having on our corals is cause for dire concern. Corals (both an animal and a microscopic algae) are the foundation and building blocks of our entire reef ecosystem. We need to do ALL we can to protect them before it's too late.

Mahalo for being the ones to make history based on what's pono for our environment (and it helps reach the Govonor's 30x30 plan!).

SB-2571-HD-1

Submitted on: 4/2/2018 5:38:49 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Sherry Pollack	Individual	Support	No

Comments:

SB-2571-HD-1

Submitted on: 4/2/2018 6:20:45 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Craig Michael Bisgard	Individual	Support	No

Comments:

I'm very excited that we have an opportunity to help the marine wildlife with this bill. Making a small change to sunscreen requirements are the least we can do to take pressure off of our beaches.

I would like to see more immediate start date; the year 2019 would be more appropriate than 2021.

Thank you for your consideration,

Craig Bisgard, Big Island Resident

SB-2571-HD-1

Submitted on: 4/2/2018 6:35:20 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Patricia Blair	Individual	Support	No

Comments:

Ban Oxybenzone in sunscreens, and any other toxins

SB-2571-HD-1

Submitted on: 4/2/2018 8:27:54 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Andrea Nandoskar	Individual	Support	No

Comments:

Please support this bill! Sunscreens containing oxybenzone and octinoxate damage precious coral reefs on which Hawaii's shoreline, beaches, recreation and tourist economy all depend. They are toxic chemicals that deform coral DNA and kill coral larvae so we are seeing less restoration after bleaching events. These chemicals can disrupt our hormones and contribute to higher risk of breast and prostate cancer, among other diseases. Even if we personally choose not to use these products we are being exposed. Sunscreen formulations free of these harmful chemicals are already available throughout Hawai'i. It's up to us to steward and protect our precious and irreplaceable natural resources for today and future generations. What will you tell your grandchildren when they ask what actions you took to ensure the protection of our aina and moana?

SB-2571-HD-1

Submitted on: 4/2/2018 8:48:52 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
bailey a ferguson	Individual	Support	No

Comments:

Aloha, I kindly request you pass SB2571. With Hawaii being such a big tourist destination the sunscreens the people bring to pollute our waters. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. Mahalo

SB-2571-HD-1

Submitted on: 4/2/2018 9:58:41 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Anna	Individual	Support	No

Comments:

Aloha, I kindly request you pass SB2571 for the sake of our environment, our oceans, our planet, and future generations. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. Mahalo.

SB-2571-HD-1

Submitted on: 4/2/2018 10:21:11 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Dean Otsuki	Individual	Support	No

Comments:

I am in strong support of SB2571 which bans the sale or distribution in the State of Hawaii of any sunscreen that contains oxybenzone or octinoxate.

Toxicology experts have found that oxybenzone is linked to hormone disruption and has the potential to damage cells that may lead to skin cancer.

Oxybenzone is an endocrine-disrupting chemical that mimics hormones, causes endometriosis and can pose a risk to reproductive systems. Oxybenzone has also been linked to early puberty in girls, low sperm count and male infertility, and an increase in hormone-related cancers in men and women. Oxybenzone is even more strongly estrogenic than bisphenol A. Octinoxate is an endocrine disruptor as well. Both these chemicals are toxic to coral reefs.

Please protect our corals and human health by passing SB2571.

Thank you for reading my testimony.

Aloha,
Dean Otsuki

SB-2571-HD-1

Submitted on: 4/2/2018 10:22:30 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
alicia neylon	Individual	Support	No

Comments:

Just in the last few years there has been a major change in the coral reefs of Kona coastline and there are so many many problems that need to be addressed from sonar blasting. To greenhouse emissions, plastic, overfishing, the endless list will continue to stack up against us unless we start makin simple changes one at a time. Please stop sunscreen on our reefs! Reef safe sunscreen Only for Hawai`i! Just like how everything is screened at TSA in the airport we should dispose of any oxybenzo e sunscreen from being brought into out Islands as soon as they board their flights.

SB-2571-HD-1

Submitted on: 4/2/2018 10:22:47 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Dee Fulton	Individual	Support	No

Comments:

Please not only pass this much needed bill to ban the sale of products containing Oxybenzone and octinoxate, but expedite the implementation of this law to January 2019. Furthermore, please restore the language that applies the ban to all products containing those chemicals, including moisturizers and cosmetics, and not just sunscreen. And of course, deep six the preemption clause on counties. Let's keep the focus on protecting the people and the reef, not on protecting the bottom line of the personal care industry.

There is ample research that teaches us that these chemicals not only are lethal to the reef, but harmful to humans as well.

Thank you for acting on your kuleana and banning these pernicious chemicals from our state.

Aloha,

Dee Fulton

SB-2571-HD-1

Submitted on: 4/2/2018 10:35:42 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Adrienne Kimber	Individual	Support	No

Comments:

Aloha, I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. Mahalo.

SB-2571-HD-1

Submitted on: 4/2/2018 10:54:17 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Ava Fedorov	Individual	Support	No

Comments:

It is so important to ban the horribly destructive chemicals and keep hawaii's precious ocean ecosystems safe.

SB-2571-HD-1

Submitted on: 4/2/2018 10:56:09 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Alice Terry	Individual	Support	No

Comments:

Aloha, I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. Mahalo for your consideration!

SB-2571-HD-1

Submitted on: 4/2/2018 11:21:01 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jeff Bagshaw	Individual	Support	No

Comments:

My name is Jeff Bagshaw, I am the Volunteer Coordinator, outreach and information staff for `Ahihi-Kina`u Natural Area Reserve - the third most visited outdoor site on Maui, and sadly home to the only reef in Hawaii that is not declining.

I urge Hawaii to ban the sale of toxic compounds used in personal care products marketed as sunscreens. I am sure that someone will suggest that “we” should not be hasty and that “we” should simply provide education and let the public make the choices for themselves. When someone speaks of educational outreach work, they are talking about me and the volunteers and staff I work with as the Volunteer Coordinator and Outreach/Information specialist for `Ahihi-Kina`u Natural Area Reserve. I want to paint you a picture of what that education effort means from someone on the front lines. I have been doing this type of work on Maui since 1988, first with Haleakala National Park for 28 years, and now with the state for the last 3 years.

`Ahihi Cove was tested three years ago for only Oxybenzone - the result was 868 parts per trillion. Our most recent test this summer put us at 1,084 ppt. Its lethal to corals at 62 parts per trillion. When we learned about this issue over 2 years ago, I began an aggressive education campaign at the reserve. First, I developed a hand-out to explain the issue. Many said it was too much to read, so I developed a “shopper’s card” that simply lists the ingredients to NOT buy or use, most of the ingredients which are virtually identical to Oxybenzone, in an effort to help people find the right skin protection products. Since we began, we have distributed over 150,000 of these cards. One year ago, I completed a map for visitors that includes messages about sunscreens, and began distributing to dive shops, businesses, hotels and resorts in the entire south Maui area. I included the message on our new signage we are installing this month, and I developed a display that helps people understand that their “... its just me, just today, this really can’t add up to much in the ocean...” attitude collectively contributes to roughly 70 gallons of sunscreen going into the ocean around the island of Maui each and every day.

In order to reach as many visitors as possible, myself and volunteers must greet visitors to the reserve in our main parking lot, during the busiest and sunniest hours between 8am and 1pm, when its often 90+ degrees. We have only moments to approach them, give them orientation advice and ask them to not use any sunscreen products, because the very first thing people quickly do is apply some kind of sun protection as soon as they hop out of the car. We are not romantically walking the beach and listening to the ocean - by then its too late. When they reach the reserve, they have left behind any areas 30 minutes prior where they could have bought zinc or titanium sun blocks or sun-shirts, and we cannot sell anything on state natural area reserve lands. Rarely do any of these people choose to go back and buy the right stuff. At most I can only give 50% of my time to this one issue - I have other duties. Imagine the dedication of a handful of volunteers who roam a parking lot two hours a week in 90 degree weather to do the same. I believe in the work we do, education on such issues is a vital component of conservation, but after two years, we are exhausted. At the very best we are reaching 20% of our daily visitors, on only 2% of Maui's coastline. Car counts and surveys show that the reserve is the 3rd most visited outdoor recreation site on Maui (behind Haleakala National Park and Iao State Park). An average of 1,200 people drive into our main parking lot each day, with a minimum of 700 going into Ahihi Bay and cove daily. Education is clearly not enough.

You will receive testimony threatening spiraling cases of skin cancer if these products are prohibited in any way. Yet even fair-skinned people in Hawaii avoided skin cancer before the creation of these compounds. Zinc and titanium sunblocks have worked for generations, and they are working for me now. I have a history of skin cancer in my family, and I visit my dermatologist annually. She assures me I am protecting myself well with sun-clothing and mineral sunblocks. I can work in the sun, go in the ocean and not poison the reefs.

Please do not be swayed by industry lobbyists predicting doomsday health scenarios. Industry chemists may claim there is not enough data, but how can we gamble and wait years to gather more data? There are multiple studies against these compounds. If you are concerned about economic impacts, remember that all the major companies already sell mineral sunblock products. They need simply change their marketing lines. And don't forget the economic impacts to local fishermen who rely on their ocean catches to help feed their families. Economic impacts from dying reefs hit them just as it does to the tourism industry.

In Sept/Oct of 2015 we lost a heart-breaking 30-50% of our reefs in eight weeks due to ocean temperatures reaching 88 degrees. I have personally seen reef diversity and species density plunge at many major dive sites on Maui. While sunscreen products did

not cause this crisis, they directly weakened reefs prior to the event. We may never know if reefs could have withstood the crisis better if this one human-induced factor, sunscreen products, could have been removed in advance.

We can't change climate problems overnight, but this is one thing we can change quickly, and we need to act quickly, before the next El Nino year. We must raise the health of our reefs so they may withstand other pressures. Skin cancer is a concern but there are alternatives that have worked for generations. This is for our future. Locations in Mexico, Australia, the Mediterranean and the Caribbean have already banned these products. Can't we we follow the examples of these "third-world" sites? Please be brave. I am when I speak with over 100 people each day on this issue, but I can't do it alone. Hawaii, perhaps Maui, must lead the nation in taking these products off the shelves and off our reefs.

Hawaii's coral reefs are the foundations of oceanic food chains here in the islands for hundreds of species. Our reefs have been the basis for the "refrigerator" for eons in Hawaiian culture, they help moderate wave sets and even enhance surfing sites. In modern times, they have become a vital draw for the tourism industry. But they are under threat from multiple sources: climate change which brings ocean acidification and excessive sea water temperatures, sedimentation from development run-off, land-based pollution from fertilizers and pesticides, over-fishing, and finally, toxic organic compounds found in cosmetic and sunscreen products.

Here is one more thing that only someone on the front lines like myself can give you, since I talk with so many visitors. Each and every day, at least once, I hear a visitor tell me they have been to Maui before, and they remember the reefs used to look much healthier. In some of these unsolicited conversations, they tell me its the only reason they came to Maui, and some say if this continues, they will not come back. My personal views are my own, not necessarily my agency's, but the work I do has informed me of the value, and the limits, of education.

More on how we arrived at the figure of 50-70 gallons of sunscreen going into Maui waters dayly. Early on when we began the educational campaign it became clear people could not grasp how important all or our collective impacts are regarding these compounds. Parts per trillion or even comparisons of drops-per-swimming-pool volume are hard to visualize.

And every day at the reserve we hear (these are direct quotes):

“Its just me, its just today, I'll only use a little.”

And occasionally: “My doctor told me that if I sunburn just once, I'll get skin cancer.”

The latter usually comes from someone wearing the smallest bathing suit they could possibly buy, instead of sun-protective clothing. And finally: “Sunblock looks funny - I won't get a nice Hawaiian tan if I use the white stuff.”

So I dusted off an old college text on environmental estimation. Its a way to realistically estimate the impact of something based on available data when its impractical to measure exactly.

* So first, imagine that just 10 percent of the island's residents and visitors go into the ocean each day somewhere around Maui, either a Sunday afternoon or a Tuesday morning.

*Now imagine that just one half of those people put on some brand of sunscreen, instead of sunblocks. Just one half since many tell us they don't wear any sunscreen at all.

*Next, imagine that 1/2 of 10 percent put on just one 1/2 ounce of sunscreen - less the recommend use by most of these manufactures.

*Given all that, this comes to approximately 50 gallons of sunscreen going into the ocean around Maui, one swimmer at a time, each day, everyday. Today.

If a truck pulled up to the ocean somewhere on Maui, the tailgate was dropped and the driver rolled out a plastic, industrial barrel and began dumping gallons of goo into the water....

I'd like to think one of us would call the EPA, the MPD or someone to make it stop.

If these compounds really were dumped like that the EPA could take action, and the dumpers would be made to pay fines and reparations. But the manufacturers of these products, have no offices, employees, factories or anyone directly impacted by prohibiting sales here in the islands. They are dumping their toxins on our environment one ocean-goer at a time and it does not affect their lives as it does ours.

Mahalo,

Jeff Bagshaw

Volunteer Coordinator, Information and Education Associate

`Ahihi-Kina`u Natural Area Reserve

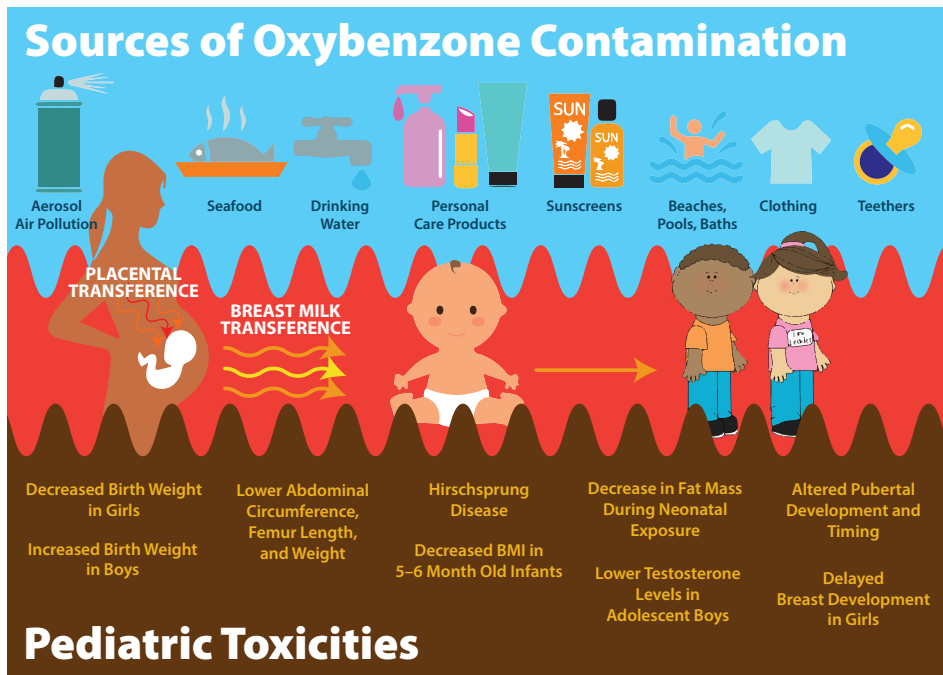
(808)264-7891 work-cell

jeff.w.bagshaw@hawaii.gov

In Support of SB2571 SD2

Aloha Representatives, I would like to thank you for hearing SB2571 SD2 and ask that you support the ban against SPF products that contain the toxic chemicals Oxybenzone and Octinoxate. Since toxic substances have no allegiance to political party and have no regard for race, creed or even species, I want to ask you once again to not give up the fight to protect your people and the environment from these chemicals ... below are infographics that summarize the scientific concerns associated with these chemicals on human life ... NOAA, DLNR and numerous scientists from around the world have already submitted testimonies relating to the aquatic toxicity produced by these substances. Additionally, the World Health Association has published scientific data that clearly shows that banning these organic pollutants is the only way to reduce them in the environment and minimize the toxic effects they exert on all living things. Please vote yes and ban products containing Oxybenzone and Octinoxate. Mahalo!

Most Respectfully, Joe DiNardo – Hawaiian Tourists/Toxicologist



Your Chemical Sunscreen Won't Prevent Skin Cancer

but may contain toxic chemicals that can harm you!

OCTINOXATE:

- Helps prevent sunburn, not skin cancer—has no "broad spectrum" activity.
- Stimulates an enzyme that causes melanoma.
- Reduces the effectiveness of a "broad spectrum" sunscreen.
- Reacts with Titanium Dioxide to form toxic chemicals that kill Limu.

OXYBENZONE:

- Is the weakest broad spectrum sunscreen active available.
- Was approved by FDA 15 years before understanding broad spectrum protection.
- Spreads Human Breast Cancer Cells making breast cancer more deadly.
- Parent compound (benzophenone) causes cancer.

Octinoxate and Oxybenzone are toxic chemicals that are harming coral and reef life as well as humans.

SIMPLE SKIN CANCER FACTS:

- Melanoma, the most deadly form of skin cancer, has increased every year since sunscreens started being sold in the late 1970s.
- Over the last 40 years, Melanoma cases have increased by 122% in women and 270% in men.
- Our Food & Drug Administration says that sunscreen by itself is not enough to stop skin cancer:
"if used as directed [*means 1 ounce every 2 hours*] with other sun protective measures [*means avoid direct sun and use protective clothing*], decreases the 'risk' of skin cancer"
- The use of SPF 50 or higher products leads to "sunscreen abuse"—making you think you are protected from skin cancer more than you really are!
- Hawaii is expected to have 500 reported cases of melanoma in 2018, which is up from 460 in 2017. Make sure you protect yourself from the sun.

Avoid direct sun exposure when possible, use protective clothing and apply a sunscreen that is safer for reef life ... one that does not contain Oxybenzone or Octinoxate.



If you want to know more about toxic sunscreens, go to www.facebook.com/OxybenzoneFreeWorldwide



SB-2571-HD-1

Submitted on: 4/3/2018 3:31:03 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jennifer Milholen	Individual	Support	No

Comments:

As a frequent diver I see first hand the multitude of stresses that the coral reef ecosystem in Hawai'i is battling. Rapid coral death is occurring in real-time before our eyes. The corals may have the capacity to begin to heal, but this will never occur as long as the millions of yearly visitors continue to introduce known toxins to the waters through these commonly-distributed sunscreens. Reef safe sunscreens are readily available and already in distribution. If Hawai'i wants to take real, effective steps toward protecting its ecosystems, removing these ingredients is a common sense move. Please pass SB2571.

The section prohibiting counties from enacting their own measures is suspect. I would ask that this section be reconsidered or removed.

Mahalo for your consideration

Jennifer Milholen

SB-2571-HD-1

Submitted on: 4/3/2018 5:10:21 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Dorothy Norris	Individual	Support	No

Comments:

I request that the Oxybenzone Bill be passed as soon as possible to protect our remaining reefs. The reefs not only protect our fisheries but also our coastline and our island homes. Thank you!

SB-2571-HD-1

Submitted on: 4/3/2018 5:36:06 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Paul S Montague	Individual	Support	No

Comments:

Please pass this bill to protect our coral reefs from chemical pollution.

SB-2571-HD-1

Submitted on: 4/3/2018 7:32:04 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Morgan Parker	Individual	Support	No

Comments:

Aloha,

I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and specifically corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These chemicals are affecting the health of the Hawaiian ecosystem, as well the economic future of the island. Additionally, these are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. Mahalo.

SB-2571-HD-1

Submitted on: 4/3/2018 7:39:07 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Suzanne Frazer	Individual	Support	No

Comments:

Dear Chair Luke, Vice-Chair Cullen and Finance Committee Members,

I am writing in support of SB2571 SD2 HD1 as I support banning the chemicals oxybenzone and octinoxate in sunscreens. These chemicals have no reason to be in sunscreens as there are plenty of great alternative, non-toxic formulas that don't contain chemicals and still protect skin from harmful sun rays. Corals and marine life need to be protected from these harmful chemicals. This version of the bill however needs further amendment as July 2021 is far too long to wait to stop the contamination of the ocean environment. Please start the ban much sooner - this year or next year would be great. And Section 2 (b) needs to be deleted as it's not right to prevent the Counties from taking action on this problem. Also I can't think of one reason why someone would need to use sunscreen with chemicals in it and need a prescription for it. I have skin that burns easily and I don't use chemical sunscreens - I use natural non-toxic, non-chemical ones and they work fine. And why would someone want to use endocrine disrupting chemicals on their body anyway? It doesn't make sense. When people do harm to the environment, they do harm to themselves and vice versa. So choosing to use one of the many great sunscreens available that are made from natural ingredients and not from chemicals is a good for them and good for the environment and marine life. Please pass this bill with the amendments I suggested above. This is a win win for everyone. Sunscreen manufacturers who use chemicals will just have to adjust and that's not a big deal - they re-formulate their products anyway and this will be a great way to market their new version of sunscreen - that it is REEF SAFE!

Thank you for this opportunity to testify on this bill.

Aloha,

Suzanne Frazer.

SB-2571-HD-1

Submitted on: 4/3/2018 7:48:33 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jamie Pardau	Individual	Support	No

Comments:

The reefs of Hawaii create more than a pleasant view. They are protection against erosion, production areas for fisheries, and a source of travel-related economics for our state. With the raising temperatures of the sea, we must do everything we can to protect the surviving coral. Banning the use of sunscreens with harmful ingredients is one small step in the right direction. Oxybenzone is not needed for sun protection. Other products work as well, or better. But oxybenzone inhibits the reproductive systems of coral. Please ban these products.

SB-2571-HD-1

Submitted on: 4/3/2018 8:05:12 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
jean chee	Individual	Support	No

Comments:

Aloha, my name is Jean Chee resident of the of Honolulu, 96815. I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. Thank you for your support snf hearing of this bill. Mahalo.

From: Duke Schneider <Duke@rawelementsusa.com>
Sent: Tuesday, April 3, 2018 7:18 AM
To: FINTestimony
Subject: Testimony SB2571 SD2 HD12

Testimony in SUPPORT of SB2571 SD2 HD1
Finance Committee
Rep Sylvia Luke, Chair
Rep Ty J.K. Cullen, Vice Chair
Wednesday April 4, 2018
2:30 PM
Conference Room 308

To Whom it may concern,

I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and specifically corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. Mahalo.
Note: There are still issues with this version of the bill, including county restrictions and effective date. Comment on these in your testimony if you would like. If it makes it through FIN, it heads to Conference where House and Senate can squabble over details.

Theodore " Duke" Schneider
Account Manager/ Customer Service Guru
Phone: (401) 212-9252

Fax: (888) 546-9706
Duke@rawelementsusa.com
www.rawelementsusa.com



RAW ELEMENTS

Certified Natural Sunscreen



From: Danni Johnson <danni@rawelementsusa.com>
Sent: Tuesday, April 3, 2018 7:15 AM
To: FINTestimony
Subject: Testimony SB2571 SD2 HD12

Testimony in SUPPORT of SB2571 SD2 HD1
Finance Committee
Rep Sylvia Luke, Chair
Rep Ty J.K. Cullen, Vice Chair
Wednesday April 4, 2018
2:30 PM
Conference Room 308

Aloha, I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and specifically corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. Mahalo.

Note: There are still issues with this version of the bill, including county restrictions and effective date. Comment on these in your testimony if you would like. If it makes it through FIN, it heads to Conference where House and Senate can squabble over details.

Danni Johnson
Director of Marketing
danni@rawelementsusa.com
www.rawelementsusa.com



SB-2571-HD-1

Submitted on: 4/3/2018 8:54:24 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kuaihelani Burgess	Individual	Support	No

Comments:

SB-2571-HD-1

Submitted on: 4/3/2018 9:07:26 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
june chee	Individual	Support	No

Comments:

SB-2571-HD-1

Submitted on: 4/3/2018 9:08:34 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Heather George	Individual	Support	No

Comments:

Please support this important bill!

I live on Kauai and frequently (2-3x a week) swim and snorkel on the popular south shores (Poipu, Waiohai, and Lawai Beaches). I regularly see the effects of sooooo many people and so much sunscreen, and do not want these harmful products to do even more damage to our precious coral reefs and marine life that depends on them.

Let's be leaders on this issue here in this state - thank you for your consideration to ban these products!

-Heather George Koloa, HI 96756

SB-2571-HD-1

Submitted on: 4/3/2018 9:19:28 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
kerry ach	Individual	Support	No

Comments:

Aloha, I respectfully ask for your support in the passage of SB2571. Oxybenzone and octinoxate are toxic to humans, marine life, and corals. Please help to protect the health of the ocean, which is, of course, the essence of our home, Hawaii. Mahalo.

SB-2571-HD-1

Submitted on: 4/3/2018 9:21:10 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Dena Sedar	Individual	Support	No

Comments:

We need to help protect our corals any way that we can. By banning oxybenzone from sunscreens we are helping to improve the health of our coral reefs. There are many mineral-based sunscreen alternatives to oxybenzone sunscreen, so it won't be difficult for people to find replacement sunscreens. The ban of oxybenzone is what is best for the health of Hawaiian corals.

SB-2571-HD-1

Submitted on: 4/3/2018 9:39:06 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Michael McGuire	Individual	Support	No

Comments:

I urge you to pass SB2571, banning the use of chemicals that are harmful to Hawaii's coral reefs. There are already reef safe sunscreens that provide for the protection of beach users and our reefs.

It makes NO sense to continue to harm one of Hawaii's biggest tourist draws, our beautiful beaches and our magnificent coral reefs.

The impacts to our reefs are far greater than the minimal financial impacts to the makers of sunscreen. They have other options, our reefs do not.

SB-2571-HD-1

Submitted on: 4/3/2018 9:41:27 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kevin O'Connor	Individual	Support	No

Comments:

Please protect our water and ban these chemical sunscreens. There are many alternatives available made in State! Support our local economy and protect our Reefs!!

mahalo!

SB-2571-HD-1

Submitted on: 4/3/2018 9:52:34 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
annika bauer	Individual	Support	No

Comments:

Aloha, I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. Mahalo.

SB-2571-HD-1

Submitted on: 4/3/2018 10:02:13 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Joe Wat	Individual	Support	No

Comments:

Oxybenzone is outdated technology. There is no reason why we should value the market share of mainland sunscreen companies over the health and integrity of our 'Āina. In addition to the immediate protection of our reefs and fishing stocks that this bill would produce, it also creates a unique market for environmentally safe products that will bolster Hawai'i based businesses that can create local products to fill the spaces on the shelves of the dangerous oxybenzones. Please consider who benefits and who loses on this bill. There are plenty of price comperable options already on the shelves without oxybenzones, the majority of consumers that I have spoken to are already willing to purchase oxybenzone free sunscreen. The only barrier is knowledge. Please take action to keep these poisons out of our oceans.

SB-2571-HD-1

Submitted on: 4/3/2018 10:03:06 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Andrea Keeseey	Individual	Support	No

Comments:

Aloha, I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. Mahalo.

Aloha,

My name is Luka Wohl, and I am a sophomore at Kealakehe High School on the west side of the Big Island. As a part of my Global Action Project of the Pacific and Asian Affairs Council's Global Leadership Program, I am currently working on a project about informing the public about the harms of oxybenzone in sunscreen. Upon approval by the Department of Transportation, my goal is to inform the public by placing a banner in the Kona Int'l Airport, emphasizing the harms of oxybenzone. Oxybenzone is a toxic chemical, for both coral reefs and humans alike, and people should be aware of these damaging effects for themselves and the reefs, before applying it to their body. Restricting the access to oxybenzone on supermarket shelves will make corporations invest in reef safe sunscreen to stay in this market, especially in Hawai'i. Feel free to contact me on my cell: (808) 756-0724, and my email: luka.wo20@gmail.com.

Below is my current draft of the banner.

PROTECT YOUR SKIN, AND THE ENVIRONMENT!

Your sunscreen is toxic to you and Hawai'i's coral reefs.

WHAT IS OXYBENZONE?
Oxybenzone is a commercially-produced chemical used in sunscreens, other personal care products, and used in some plastics.

IS OXYBENZONE BAD FOR ME?
Studies suggest that Oxybenzone can be absorbed into the skin, in turn, the chemical entering your bloodstream.

WHAT IS THE RELATION WITH MY OXYBENZONE SUNSCREEN AND CORAL REEFS?
When your sunscreen eventually wears off into the water, the oxybenzone bleaches the coral, making the reef inhabitable to millions of marine species.

YOU CAN **SAVE THE REEFS** FROM BLEACHING

say **YES** to minerals

TITANIUM DIOXIDE

say **NO** to chemicals

ZINC OXIDE

OCTOCRYLENE


HOMOSALATE

OCTINOXATE


OXYBENZONE

IN YOUR SUNSCREEN!

Healthy Coral



Bleached Coral



Mālama i ke kai,
a mālama ke kai iā 'oe!

Care for the ocean and the
ocean will care for you!

Drug Facts

Active ingredients	Purpose
Azobenzene 3%, Benzophenone 1.0%, Octisalate 3%, Octocrylene 2.8%, Oxybenzone 6%	Sunscreen

Uses • helps prevent sunburn • If used as directed with other sun protection measures, (see **Directions**), decreases the risk of skin cancer and early skin aging caused by the sun

Warnings • For external use only • Do not use on damaged or broken skin • When using this product keep out of eyes. Rinse with water to remove. • Stop use and ask a doctor if rash occurs • Keep out of reach of children. If swallowed, get medical help or contact a Poison Control Center right away.

Created by Luka Wohl of Kealakehe High School with help of local community and the Pacific and Asian Affairs Council (PAAC).

Mahalo Nui Loa,

Luka Wohl

SB-2571-HD-1

Submitted on: 4/3/2018 11:05:11 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Lauren Taylor Chung	Individual	Support	No

Comments:

SB-2571-HD-1

Submitted on: 4/3/2018 11:07:28 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Daryl Bolosan	Individual	Support	No

Comments:

I agree with the testimony and believe that those products should be banned from our stores and or possibly make the prices higher.

SB-2571-HD-1

Submitted on: 4/3/2018 11:08:56 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
maia canfield	Individual	Support	No

Comments:

SB-2571-HD-1

Submitted on: 4/3/2018 11:09:54 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Mier Yu	Individual	Support	No

Comments:

I support this because I would not like to see anymore coral reefs to die anymore

SB-2571-HD-1

Submitted on: 4/3/2018 11:11:42 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Serena Luttrupp	Individual	Support	No

Comments:

I support the notion of banning the sale of sunscreens that contain substances like oxybenzone or octinoxate because I don't like that we are currently able to have products that scale that high on the toxicity scale (8). Octinoxate is also harsh on coral reefs, causing a complete bleaching even at miniscule amounts. It is especially bad for the Hawaiian ecosystem, considering most of our profit is based off of tourism and the readily available beach scenery. If the reef are damaged, then that could mean trouble for other marine life currently residing in Hawaii. Banning these toxic substances in sunscreen products can only be beneficial for us and the world around us.

SB-2571-HD-1

Submitted on: 4/3/2018 11:11:50 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Erina Furuta	Individual	Support	No

Comments:

SB-2571-HD-1

Submitted on: 4/3/2018 11:12:16 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Madison Masek	Individual	Support	No

Comments:

Aloha, I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. Mahalo.

SB-2571-HD-1

Submitted on: 4/3/2018 11:17:42 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Chanel	Individual	Support	No

Comments:

I support the SB2571 Bill relating to Water Pollution and the ban on oxybenzone or octinoxate, or both. With recent scientific discoveries and the further understanding of our ecosystem, we have the knowledge that can be used to put an end to releasing harmful chemicals and products into our environment. If we are put in a position where we can eliminate detrimental substances that are proven to hurt our ecosystem, necessary actions should take place.

SB-2571-HD-1

Submitted on: 4/3/2018 11:18:40 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kauai Murakami	Individual	Support	No

Comments:

I support that we shouldn't be using oxybenzone and octinoxate. Those chemicals are harming the coral reefs and that will then greatly affect our ecosystem. There is really no point in having those chemicals because all it is doing is harming the world. If there are alternatives that we can use that won't harm the coral reefs then we should use that. Millions of people live here and visit here every year and they're probably millions of gallons in the ocean killing everything in its way. I believe that we as a state and as a world will benefit from this banned. This is just one more thing that we can do to save us and our Earth.

SB-2571-HD-1

Submitted on: 4/3/2018 11:20:22 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Caitlin	Individual	Support	No

Comments:

I believe that this ban will be very helpful for our coral reef here in Hawaii, because there is a lot of coral that is being damaged from the chemicals in sunscreen. So I believe that if there is a change in the sunscreens it would be able to make our coral a little better. At Waikiki the water is so murky due to all the bodies that come into the ocean with sunscreen and you can barely see the reef that is below in the water. Waikiki is a very popular place for tourists but we want to keep our oceans clean and clear. So I will support the ban of this Oxybenzone to keep our coral and oceans clean.

SB-2571-HD-1

Submitted on: 4/3/2018 11:22:23 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
JOCELYN CHEN	Individual	Support	No

Comments:

The SB2571 bill needs to be approved in order to prevent further damage to coral bleachings in relation to the absorption of oxybenzone. The effects of coral bleaching will trigger a larger number of problems such as the extinction of certain marine life, food system, and the livelihood of marine-related jobs. The passing of the SB2571 bill will alleviate the many damaging factors towards ocean pollution.

SB-2571-HD-1

Submitted on: 4/3/2018 11:23:00 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
L Gentry	Individual	Support	No

Comments:

I approve of Bill SB 2571. For some companies, their profit from products containing these ingredients and coming from Hawaii will cease. But the customers will trickle to the healthier options, strengthening their economic endeavors. Even with these financial drawbacks, the safety of our marine environment and more specifically coral nutrition is of the utmost importance. The gradual decomposition of our coral reefs impacts Hawaii's greatest industry: tourism. When our natural attractions start falling apart this can cause a ripple effect on our way of life. If the sale of items with oxybenzone or octinoxate content is banned, more revenue can be generated by other companies with safer products. When more capital is invested in the creation of healthier sunscreens, million tourists and residents will be forced to spend more in order to buy safe protectants, which in turn will increase the value of the evergrowing industry of tourism. Overall, I support this ban because companies whose products care for our oceans should be praised and those who don't should be punished because of the lasting effects that could pollute our beautiful oceans and damage our economy.

SB-2571-HD-1

Submitted on: 4/3/2018 11:23:13 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Megan Mattison	Individual	Support	No

Comments:

I am very much in support of this bill to help prevent water pollution. There has been significant research to prove that oxybenzone does have an effect on coral bleaching, coral toxicity, and coral skeletons. As a state that profits greatly from the tourism industry, it is extremely important that we protect our land, especially our oceans. Not only is it important to protect our coral reefs because of tourism, it is also necessary to help the global community and prevent further damage to our oceans on a global scale. As a very fair-skinned person living in Hawaii, I understand the importance of sunscreen for the average person to prevent skin damage. I also understand and appreciate, however, how vital it is for us to make change in how we treat the earth. I use a lot of sunscreen, and I would gladly use oxybenzone-free sunscreen if it is easily accessible, which it will be when this bill is passed. This bill is an extremely important step for Hawaii to do what we can to help our world.

SB-2571-HD-1

Submitted on: 4/3/2018 11:30:44 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jason Shon	Individual	Support	No

Comments:

SB-2571-HD-1

Submitted on: 4/3/2018 11:35:47 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Roxie	Individual	Support	No

Comments:

Aloha, I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawai'i including toxic effects to people, marine life, and corals. There are much more safe, efficient options presently available in Hawai'i, and users/consumers are not aware of their options. Mexico has already banned the use of oxybenzone sunscreens on their reefs, and Hawai'i is lacking in this sense. Our coral reefs provide food and shelter for our marine life, thereby providing food for us. And coral reefs keep our islands safe during storm events and erosion. A study showed that in Maui alone, about 55 gallons of sunscreen enters our ocean each day, as we have the highest visitor use in the state. It's better to ban the chemical for sale in our state, than it is to enforce people on our beaches not to use it. Mahalo.

SB-2571-HD-1

Submitted on: 4/3/2018 11:50:53 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Dale Sarver	Individual	Support	No

Comments:

These chemicals hurt our reefs and are a danger to humans too. There is NO REASON to allow them to be used in Hawaii. Also there is no reason to delay this effort any longer than next year 2019. There are plenty of alterenative sunscreens.

SB-2571-HD-1

Submitted on: 4/3/2018 11:58:47 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Mary Lacques	Individual	Support	No

Comments:

SB-2571-HD-1

Submitted on: 4/3/2018 12:10:30 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Rebecca Atkinson	Individual	Support	No

Comments:

There are more than enough options for sun protection to ban the bad ones that suffocate our coral reef. Let's protect the attraction to our oceans. Coral and fish. We all love them.

SB-2571-HD-1

Submitted on: 4/3/2018 1:15:21 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Laura Dvorak	Individual	Support	No

Comments:

Aloha,

As an ocean paddler, geographer, former park ranger, and conservationist, I kindly request you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and specifically corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. I personally use zinc based sunscreens and encourage other paddlers to do the same.

Mahalo.

SB-2571-HD-1

Submitted on: 4/3/2018 1:53:22 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kari Matadobra	Individual	Support	No

Comments:

Aloha,

I kindly request you pass SB2571. As a scuba diver and Marine Science educator, I am aware of the numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and corals. I have seen the terrible damage that huge amounts of runoff and chemicals and overfishing have caused the reefs. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water, restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available in Hawai'i. There are far too many alternatives to these chemicals, and they are simply stressing the already stressed out coral reefs unnecessarily! Not too mention potentially entering the food chain!

Mahalo, Kari Matadobra (10th-12th Marine Science Teacher)

SB-2571-HD-1

Submitted on: 4/2/2018 4:53:41 PM

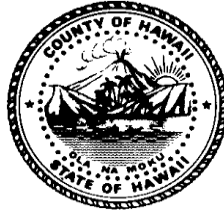
Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Karen	Individual	Comments	No

Comments:

I'm writing in support of the "Oxybenzone Bill" SB2571. The ingredient oxybenzone or octinoxate in sunscreen is harmful to the aquatic ecosystem, as well as being harmful to humans. Oxybenzone and octinoxate cause damage to the reef. Scientific studies have shown diminished growth in coral and toxic to seven coral species. These two ingredients interrupt DNA and are endocrine disrupters affecting various fish. In humans, these sunscreen ingredients may mimic hormones and cause skinn allergies. SB2571 should not allow counties, cities or other governing bodies to overrule, or enact ordinances or other regulator action that would restrict the enforcement of SB2571 at any time in the future. The effective date of SB2571 needs to be immediate. Scientific studies have been conducted for the past 10 years and longer showing definitive results that indicate oxybenzone and octinoxate are harmful to reefs, marine fisheries, marine ecosystems and humans. Please amend SB2571 to remove the ability of any governing body to rescind this bill at any time in the future, add that this bill should be effective immediately, and please pass it immediately. Thank you.

Eileen O'Hara
Council Member
Council District 4



Phone: (808) 965-2712
Fax: (808) 961-8912
Email: eileen.ohara@hawaiicounty.gov

Chair: Environmental
Management Committee

Vice Chair: Planning Committee and
Agriculture, Water & Energy
Sustainability Committee

County of Hawaii

Hawaii County Council

25 Aupuni Street, Suite 1402 • Hilo, Hawai'i 96720

LATE

Representative Sylvia Luke
Chair, House Committee on Finance
Hawai'i State House of Representatives

April 3, 2018

Re: In Support of Senate Bill 2571, from Hawai'i County Council District 4
To be heard by FIN on Wednesday, 04-04-18 2:30PM in House conference room 308

Aloha Chair Luke and Committee Members:

I'm writing to express my support of Senate Bill 2571, which bans the sale, offer of sale, or distribution in the State of any SPF sunscreen protection personal care product that contains oxybenzone or octinoxate, or both, without a medically-licensed prescription.

Hawai'i's coral reefs are being bleached at an unprecedented rate, and recent studies show that oxybenzone may be part of the problem. Though our economy is heavily supported by tourists coming to visit these reefs, and sunscreen is essential to ensure the health of our citizens and these visitors, protecting our reefs must be paramount. Alternatives to oxybenzone in sunscreen products are available, and banning sunscreen containing oxybenzone for sale will send a message to further research and promote other viable options.

I do not hesitate to support any measure which has such positive impacts on the ecology and environment of Hawai'i. Please contact me if you have any questions about my support or knowledge of the subject.

Sincerely,

Eileen O'Hara
Council Member
Council District 4

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 3:06:04 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Natalie McKinney	Kokua Hawaii Foundation	Support	No

Comments:

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 4:17:33 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Hans Schippers	Surfrider Foundation	Support	No

Comments:

To whom it may concern,

I am requesting that Bill SB2571 be heard on behalf of Surfrider Foundation. The degradation of our environment is being witnessed first hand and can be seen throughout everyday life in Hawaii. Oxybenzone damages our coral reefs and does not allow them to provide the proper substance for the eco system around them. Through banning this harmful substance from sunscreens and moving towards more eco friendly sunscreens the coral reefs will have the chance to rebuild themselves and allow for a healthy environment to evolve.



April 3, 2018

LATE

Support for SB 2571 HD1: Relating to Oxybenzone

Committee: Finance (FIN)

Hearing: April 4, 2018, 2:30pm, Rm. 308

Dear Chair Luke, Vice Chair Cullen and Members of the FIN Committee,

As the Hawaii Manager of the Surfrider Foundation, I am writing in support of SB2571 HD1, which prohibits the sale or distribution for sale of non-prescription SPF sunscreen products containing octinoxate or oxybenzone. The Surfrider Foundation's five chapters in Hawaii and our extensive network of supporters are concerned about the damage chemicals like oxybenzone and octinoxate are doing to our reef system, which annually generates about \$800 million in gross revenues to the state of Hawaii. We are also part of the Hawaii Reef and Ocean Coalition, which was formed last year by concerned coral reef scientists, educators, government officials and environmental groups, and one of our top priorities is banning sunscreens with oxybenzone.

On behalf of thousands of supporters, activists and members across the state, we strongly support efforts to ban the sales and distribution of sunscreens containing the toxic chemical oxybenzone due to its destructive effects on Hawaii's coral reefs. As a chemical UV filter, oxybenzone is added to nearly 70 percent of non-mineral sunscreens and commonly washes into our oceans when applied at the beach, harming our coral reef ecosystems. Yet there are many other chemical and mineral-based sunscreens that don't contain these toxic ingredients.

Along with damaging coral DNA and inhibiting its ability to reproduce, oxybenzone causes deformities in coral reefs, makes them more susceptible to bleaching, and initiates endocrine disruption. In 2016, scientific panels held at the International Coral Reef Symposium (ICRS) and the International Union for the Conservation for Nature (IUCN) in Honolulu both showed a consensus that Oxybenzone is toxic to corals and recommended a ban on sunscreen products that contain it. There have also been studies showing that this chemical and its many derivatives are toxic to human health as well. It's estimated that 500 tons of sunscreen enter Hawaii's waters everyday so we have to take the precautionary approach to protecting our reefs from these toxic chemicals.

We support educational efforts to curb the usage of these products, but they are not enough. The most effective way to prevent these chemicals from entering our waterways is to ban the sale and distribution of these products statewide. Many visitors purchase sunscreen once they arrive in the Islands, and we need a bill to ensure that oxybenzone and other reef-harming chemicals will not be sold in the State. Our reefs are an important and valuable part of Hawaii's ecosystem and economy, and we must do all we can to protect them.

As an amendment, we suggest taking out the prohibition that forbids the Counties from enacting their own bans. There may be other causes of reef degradation, but this bill offers an important first step to help maintain the economic, ecological, cultural, and recreational value of Hawai'i's reef systems. As a regular ocean swimmer and surfer on Oahu's South Shore, I can tell you that I often see a film of chemical-laden sunscreen in our waters. This bill will promote the usage of reef-safe sunscreens that are mineral-based and not made from harmful chemicals to our reefs and skin. Mahalo for your consideration.

Aloha,

Stuart Coleman

Stuart H. Coleman, Hawaii Manager

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 2:27:27 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Tatyana Cerullo	Kokua Sun Care	Support	No

Comments:

Dear Honorable Finance Committee Members:

I am testifying in STRONG support of the ban on oxybenzone and octinoxate on behalf of myself, family, community, and business. These chemicals in sunscreens are like the "new smoking" before everyone new it was horrible for your health and it is like the tetraethyl LEAD we used to allow in gasoline. But these chemicals are even worse and we need to ban them immediately, not in 10 years or even 3 years. Now. They are toxic; they disrupt our hormones; lower testosterone levels in boys and men; increase our risk of cancer; cause deformities in babies; stimulate an enzyme that causes melanoma, ironically; kill coral and feminize male fish; it's in our drinking water, pools, and oceans; and 97% of us have it in our blood; it's passed on to our babies through the placenta and breast milk.

When people use them, it adversely affects everyone and our marine ecosystems. In the news ..."You can find these chemicals in the water almost everywhere you go swimming in Hawaii. They come not just from swimmers, but our sewage, which is loaded with these and other personal care product chemicals. In less than 30 minutes after applying an oxybenzone sunscreen to your skin, you can detect it in your urine. Everything that comes off of us or out of us goes back to the ocean.... It is estimated that over 500 tons of sunscreen pollute the waters surrounding Hawaii." - Honolulu Advertiser 3/8/2018 article by Craig Downs, executive director of Haereticus Environmental Laboratory, and Lisa Bishop, president of Friends of Hanauma Bay.

Lobbyists who are only thinking about money should not be influencing what is right for the health of people and the environment. We need our elected officials to take the first step in protecting us immediately. This bill is only a start, but we have to start somewhere and the coral cannot wait.

There are many alternatives on the market to sunscreens with oxybenzone and octinoxate. I am the owner of a Hawaii-based company called KĀ• kua Sun Care that is selling 3 oz tubes of a Hawaiian Natural Zinc Sunscreen 50 SPF/80 minute water resistance. See www.kokuasuncare.com. The active ingredient is 25% zinc and it's human, reef and marine safe, and we are using 7 Hawaii-grown antioxidant ingredients supporting local business and agriculture. It complies with all FDA regulations for manufacturing, testing, and labeling. We strongly support this bill to ban oxybenzone

and octinoxate due to the established widely accepted scientific data that these chemicals are destroying the coral reef ecosystem and harming people. There is NO basis to claim there should be no ban because no other sunscreens exist. There is concrete evidence from my company and many others that they do exist.

Mahalo for your consideration.

Tatyana Cerullo

804 Kainoa PI

Honolulu, HI 96821

"Oxybenzone Bill" SB2571 on April 4th 2:30pm.

Finance Committee



Chamber of Commerce HAWAII

The Voice of Business

**Testimony to the Senate Committee on Finance
Wednesday, April 4, 2018 at 2:30 P.M.
Conference Room 308, State Capitol**

LATE

RE: SENATE BILL 2571 SD1 HD1 RELATING TO WATER POLLUTION

Chair Luke, Vice Chair Cullen, and Members of the Committee:

The Chamber of Commerce Hawaii ("The Chamber") **opposes** SB 2571 SD2 HD1 which bans the sale, offer of sale, or distribution in the State of any sunscreen that contains oxybenzone or octinoxate, or both, without a prescription issued by a licensed healthcare provider to preserve marine ecosystems. Prohibits counties from enacting an ordinance or regulatory restriction to prohibit the sale, use, labeling, packaging, handling, distribution or advertisement of sunscreens containing oxybenzone or octinoxate, or both, prior to July 1, 2021.

The Chamber is Hawaii's leading statewide business advocacy organization, representing about 2,000+ businesses. Approximately 80% of our members are small businesses with less than 20 employees. As the "Voice of Business" in Hawaii, the organization works on behalf of members and the entire business community to improve the state's economic climate and to foster positive action on issues of common concern.

The Chamber unquestionably supports initiatives to preserve and protect our environment. Previous testimony on this bill has cited conflicting research on these two ingredients that would be banned and their impact to the environment. As such, we are unable to support a ban on these ingredients at this time. Cutting down on sunscreen products available to consumers should not be done in haste, in turn making products that are often less effective at blocking the sun and/or more expensive what is commonly available. This would especially be true if many oxybenzone free alternatives are not available, are price sensitive or if the US Food and Drug Administration does not approve new sun screen alternative ingredients by the effective date of this measure.

Thank you for the opportunity to testify.

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 2:37:27 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Melodie Aduja	the Oahu County Committee on Legislative Priorities of the Democratic Party of Hawai'i	Support	No

Comments:



April 3, 2018

Representative Sylvia Luke, Chair
Representative Ty J.K. Cullen, Vice Chair

Members of the House Committee on Finance
Twenty-Ninth Legislature
Regular Session 2018

**RE: OPPOSITION to Senate Bill 2571, SD2, HD1 – RELATING TO WATER POLLUTION
Hearing Date – Wednesday, April 4, 2018, 2:30 p.m.**

Dear Chair Luke, Vice Chair Cullen and members of the Committee on Finance:

Mahalo for allowing me to submit comments to Senate Bill 2571, SD2, HD1 which seeks to ban sale or distribution of sunscreen products containing oxybenzone in the State of Hawaii. Bayer is one of the world's leading, innovative, life science companies whose aim is to discover, develop, manufacture, and market products that will improve human, plant, and animal health worldwide.

As the manufacturer of Coppertone sunscreens, Bayer is committed to providing a wide variety of safe and effective sun protection products to consumers. To ensure that these products provide broad spectrum protection from the sun, Bayer – like most sunscreen manufacturers in the United States – depends on a limited number of Food and Drug Administration (FDA) approved ingredients, including oxybenzone. Despite the fact that scientific evidence does not demonstrate that banning sunscreens containing oxybenzone or octinoxate is likely to have any measurable impact on the health of Hawaii's coral reefs – which are threatened primarily from causes associated with global warming, sewage discharge, and over fishing – we are sensitive to the concerns Hawaii residents have related to the decline in coral health and commend the Legislature's efforts to protect this natural treasure.

Unfortunately, Bayer's ability to provide consumers a full range of sun protection products which do not include oxybenzone has been hampered by the lack of U.S. market introduction of new sunscreen ingredients. Currently, there are limited active ingredients available within the U.S. that have the same proven effectiveness as oxybenzone for sunscreens over SPF 50 and no new sunscreen ingredients have been introduced into the U.S. market in over 15 years.

There are currently eight sunscreen ingredients pending review and approval from the FDA, several of which have been pending for over a decade. Bayer is committed to working with the FDA and other stakeholders to expedite the approval process and to bring more innovative sunscreen products to the U.S.

1201 K Street, Suite 1030 / Sacramento, CA 95814 / (916) 208-4761

Representative Sylvia Luke, Chair
Representative Ty J.K. Cullen, Vice Chair
April 3, 2018
Page 2

As such, Bayer has serious concerns with efforts to ban oxybenzone before the FDA has approved alternative ingredients and without allowing adequate time for manufacturers to reformulate their products with these ingredients. Proposals to ban oxybenzone threaten the health and safety of Hawaii residents and visitors by limiting consumer choice to lower SPF and less effective sunscreen products.

Although Bayer could support legislation which would ban sunscreen products containing oxybenzone products in the future, manufacturers need a uniform statewide standard for the regulation of sun protection products containing FDA approved ingredients. Furthermore no reputable studies demonstrating octinoxate has any effect on the health of Hawaii's coral reefs. Accordingly, Bayer has included a proposed HD2 version of SB 2571 which will provide manufacturers the certainty necessary to invest the time and resources needed to reformulate their products.

We urge the legislature to provide a reasonable timeline for sunscreen product manufacturers to reformulate products which protect Hawaii residents and visitors alike from the deadly effects of skin cancer. Thank you for the opportunity to provide this written testimony and please do not hesitate to contact me if you have any questions.

Craig M. Swaim
Deputy Director, State Government Affairs
West Region

A BILL FOR AN ACT

RELATING TO WATER POLLUTION.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

SECTION 1. The legislature finds that oxybenzone, a ~~two~~ chemical~~s~~ contained in many sunscreens, ~~oxybenzone and octinoxate, have~~ has significant harmful impacts on Hawaii's marine environment and residing ecosystems, including coral reefs that protect Hawaii's shoreline. Oxybenzone ~~and octinoxate~~ causes mortality in developing coral; increases coral bleaching that indicates extreme stress, even at temperatures below 87.8 degrees Fahrenheit; and cause genetic damage to coral and other marine organisms. ~~These~~ chemical~~s~~ have also been shown to degrade corals' resiliency and ability to adjust to climate change factors and inhibit recruitment of new corals. Furthermore, oxybenzone ~~and octinoxate~~ appears to increase the probability of endocrine disruption. Scientific studies show that oxybenzone ~~both chemicals~~ can induce feminization in adult male fish and increase reproductive diseases in marine invertebrate species (e.g., sea urchins), vertebrate species (e.g., fish such as wrasses, eels, and parrotfish), and mammals

(in species similar to the Hawaiian monk seal). Oxybenzone ~~The chemicals~~ also induce deformities in the embryonic development of fish, sea urchins, coral, and shrimp and induce neurological behavioral changes in fish that threaten the continuity of fish populations. In addition, species that are listed on the federal Endangered Species Act and inhabit Hawaii's waters, including sea turtle species, marine mammals, and migratory birds, may be exposed to oxybenzone ~~and octinoxate~~ contamination.

The legislature further finds that environmental contamination of oxybenzone ~~and octinoxate~~ persists in Hawaii's coastal waters, as the contamination is constantly refreshed and renewed every day by swimmers and beachgoers. Swimming and other water activities cause oxybenzone ~~these chemicals~~ to pollute Hawaii's water unless they are actively mitigated. Sewage contamination of coastal waters is another source of oxybenzone ~~and octinoxate~~ environmental contamination, as oxybenzone is ~~these chemicals are~~ not removed by the State's wastewater treatment system. Oxybenzone ~~and octinoxate are~~ is also discharged to the ground and surface waters from cesspools, leaking septic systems, and municipal wastewater collection and treatment systems. The legislature additionally finds that elevated levels of oxybenzone ~~and octinoxate have~~ has been

detected at popular swimming beaches and critical coral reef areas throughout the State, including Waimea bay, Hanauma bay, and Waikiki beach on Oahu, and Honolua bay and 'Ahihi-Kīna'u natural area reserve on Maui.

Accordingly, the purpose of this Act is to preserve marine ecosystems, including coral reefs, by prohibiting the sale, offer for sale, and distribution in Hawaii of sunscreen containing oxybenzone ~~and octinoxate~~ without a prescription from a licensed healthcare provider.

SECTION 2. Chapter 342D, Hawaii Revised Statutes, is amended by adding a new section to part I to be appropriately designated and to read as follows:

"§342D- Sale and distribution of sunscreen containing oxybenzone ~~or octinoxate, or both~~; prohibition. (a) Beginning January ~~July~~ 1, 2021, it shall be unlawful to sell, offer for sale, or distribute for sale in the State any sunscreen that contains oxybenzone ~~or octinoxate, or both~~, without a prescription issued by a licensed healthcare provider.

(b) No county shall enact any ordinance or regulatory restriction to prohibit the sale, use, labeling, packaging, handling, distribution, or advertisement of sunscreens containing oxybenzone ~~or octinoxate, or both, prior to July 1, 2021.~~ or other ingredients approved by the United States Food

and Drug Administration pursuant to the Federal Food, Drug, and Cosmetics Act, title 21 United States Code section 301, et seq., as amended, except as provided in subsection (a).

(c) For purposes of this section:

"Licensed healthcare provider" means a physician or osteopathic physician licensed pursuant to chapter 453, or an advanced practice registered nurse licensed pursuant to chapter 457.

~~"Octinoxate" refers to the chemical ((RS)-2-Ethylhexyl (2E)-3-(4-methoxyphenyl)prop-2-enoate under the International Union of Pure and Applied Chemistry chemical nomenclature registry; that has a chemical abstract service registry number 5466-77-3; whose synonyms include but are not limited to ethylhexyl methoxycinnamate, octyl methoxycinnamate, Eusolex 2292, Neo Heliopan AV, NSC 26466, Parsol MOX, Parsol MCX, and Uvinul MC80; and is intended to be used as protection against ultraviolet light radiation with a spectrum wavelength from 370 nanometers to 220 nanometers in a sunscreen.~~

"Oxybenzone" refers to the chemical (2-Hydroxy-4-methoxyphenyl)-phenylmethanone under the International Union of Pure and Applied Chemistry chemical nomenclature registry; that has a chemical abstract service registry number 131-57-7; whose synonyms include but are not limited to benzophenone-3, Escalol

567, Eusolex 4360, KAHSCREEN BZ-3, Uvasorb MET/C, Syntase 62, UV 9, Uvinul 9, Uvinul M-40, Uvistat 24, USAF Cy-9, Uniphenone-3U, 4-methoxy-2-hydroxybenzophenone and Milestab 9; and is intended to be used as protection against ultraviolet light radiation with a spectrum wavelength from 370 nanometers to 220 nanometers in a sunscreen.

"Prescription" means an order for medication, which is dispensed to or for an ultimate user. "Prescription" shall not include an order for medication that is dispensed for immediate administration to the ultimate user, such as a chart order to dispense a drug to a bed patient for immediate administration in a hospital. "Prescription" includes an order for a sunscreen.

"Sunscreen" means a product marketed solely for topical use to prevent sunburn."

SECTION 3. This Act does not affect rights and duties that matured, penalties that were incurred, and proceedings that were begun before its effective date.

SECTION 4. New statutory material is underscored.

SECTION 5. This Act shall take effect on January 1, 2063.

Report Title:

Environment; Water Pollution; Sunscreen; Oxybenzone; Octinoxate; Sale; Distribution; Prohibition

Description:

Bans the sale, offer of sale, or distribution in the State of any sunscreen that contains oxybenzone or octinoxate, or both, without a prescription issued by a licensed healthcare provider

to preserve marine ecosystems. Prohibits counties from enacting an ordinance or regulatory restriction to prohibit the sale, use, labeling, packaging, handling, distribution, or advertisement of sunscreens containing oxybenzone or octinoxate, or both, prior to July 1, 2021. (SB2571 HD1)

The summary description of legislation appearing on this page is for informational purposes only and is not legislation or evidence of legislative intent.



LATE

SB2571 SD2 HD1

Environment; Water Pollution; Sunscreen; Oxybenzone; Octinoxate; Sale; Distribution; Prohibition

April 4, 2018, 2:30p.m., House Conference Room 308

Relating to Water Pollution

Aloha Chair Luke, Vice Chair Cullen, and Members of the committee. My name is Maxim Poudrier-Tudan and I am representing the Sierra Student Coalition at the University of Hawaii at Manoa, and we are in strong support of SB2571 SD2 HD1 relating to water pollution.

Our oceans are Hawai'i's most valuable asset in that they not only provide countless sights of beauty, but house the largest ecosystem in this state. Oxybenzone found in many sunscreen products is directly damaging the delicate marine environments of our Hawai'i waters. The chemicals in these sunscreens are literally killing off the coral reefs in the areas around the Hawaiian Islands. The faster these chemicals get banned the faster we can see an improvement in marine life.

We must not let our coral reefs die. If we ban these chemicals we can begin the rehabilitation of an entire ecosystem. Please Support SB2571 SD2 HD1.

Mahalo

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 3:22:48 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
James McCay	Individual	Support	Yes

Comments:

Aloha Chair Luke & Vice-Chair Cullen & FIN Committee,

Thank you for hearing for SB2571 and I am in strong support of this passing. This is another extremely popular and important bill to help phase out products we need to stop using. I would like to come and testify to tell a story that proves the need for this bill to pass.

Malama Pono & Mahalo,

James McCay

2957 Kalakaua Ave Honolulu HI 96815

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 2:19:58 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
sylvia litchfield	Individual	Support	No

Comments:

Aloha,

Please pass SB2571, to protect our reefs from oxybenzone, one of the most dangerous chemicals that is polluting our oceans. Please change the effective date back to 1/1/2019, and please remove the clause that prevents counties from enacting their own sunscreen legislations.

Please do not listen to industry lobbyists who say that oxybenzone prevents skin cancer - did you know that oxybenzone actually contributes to increasing the rate of skin cancer? It is not as effective as zinc oxide or swimwear, because it doesn't protect against the full spectrum of harmful sun rays. It prevents the rays which cause burning, which can lead to "sunscreen abuse" - people stay in the sun longer than they normally would and are exposed to more of the cancer-causing spectrum. The more people use sunscreens, the higher the skin cancer rate becomes!

The chemical industry is using the same tactics to discredit this legislation as the tobacco industry did when they fought against consumer warnings. Please listen to the scientists who do not have those industry ties. There is no disagreement among the international community of peer-reviewed biologist's studies, and more research keeps coming out each year, showing the dangers of oxybenzone to the environment and our health.

Also, they are not saying that this is the only reason that Hawaii's corals are dying. Rather, this is one significant and practical solution to help protect our most beautiful reefs that support our tourist and fishing industry. Other factors should certainly be addressed also, but we must do everything we can. Our oceans are suffering from multiple illnesses - if you went to a doctor with multiple illnesses yourself, you would want them to not only address one main complaint, but to look at the full picture and do everything they can to help you. This is what we must do now for our oceans, it is a very urgent time for Hawaii's coral reefs.

Mahalo,

Sylvia

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 2:30:39 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Edgar Espero	Individual	Support	No

Comments:

Honorable Chairs Luke and Cullen,

I am in strong support of SB2571, banning the sale of oxybenzone and octinoxate in the state of Hawaii. 50 to 70% of our planet's oxygen is generated by our oceans. Healthy oceans are dependant on healthy marine ecosystems which coral reefs play an integral part. Please save and support healthy coral reefs by passing SB2571.

Mahalo,

Edgar Espero

Ewa Beach

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 2:30:45 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Danielle Swenson	Individual	Support	No

Comments:

In support of SB 2571:

Aloha Finance Chair Sylvia Luke,

I strongly urge you to pass SB 2571. I live in Kona and have been advocating for safer sunscreen now for a few years. I worked for Ironman for 5 years and we had a lot of heat on us to promote this to our athletes since it is a huge impact when so many people go into the water at one time. Also extremely impactful when you have hundreds of people going in and out of the popular beaches each and every day. I currently work for a non profit and continue to do community outreach on this topic. Community and tourists are extremely receptive to being educated on these harmful chemicals. I am pleasantly surprised how engaging the topic is and how many people want to do the right thing since they love this place. We need to protect it, give our corals a more resilient future and ensure that the health of our communities and visitors are also considered.

Mahalo for the opportunity to provide testimony,

Danielle Swenson

Kaiua Kona resident

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 3:59:54 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Shannon Murphy	Individual	Support	No

Comments:

Aloha, my name is Shannon Murphy and I am a 17 year old attending Kaiser High. I am also the president of a beach cleanup club called the Wipeout Crew at school. I learned about oxybenzone and octinoxate roughly about 3 years ago. Little did I know that my sunscreen is killing coral reefs, causing coral bleaching, and creating deformities in a variety of marine organisms. Oxybenzone is pouring into our oceans, especially in places such as Waikiki and Hanauma Bay; isn't it ironic that Hanauma Bay is a Nature Preserve and the coral reefs should be protected here, but yet we are killing it?

This issue is significant to our community and island as our healthy reefs and its organisms are critical components of a healthy ocean, our island's food, coastal protection, biomedical products, and play a significant role in Hawaii's tourism economy. Two chemicals in sunscreen could potentially destroy this all.

But the greatest thing about this bill is the fact that there is a solution. Switch your sunscreen to reef-safe alternatives containing zinc oxide and titanium dioxide. Have it tested by the FDA and you will be satisfied with its results because it does protect from UV rays.

On January 13th, I had my own oxybenzone sunscreen exchange event. Community members came down to Kaiser High School and swapped their sunscreen containing oxybenzone and octinoxate and I gave out a goodie bag containing reef-safe sunscreens. I ended up collecting a wheelbarrow full of chemical sunscreens and gave away 135 goodie bags. My community had no clue about this issue, but now they do. People want to be the change and switch their sunscreen for the sake of our coral reefs. This switch is so simple, yet it makes such a drastic change.

I will keep fighting my whole life to save the coral reefs and to educate my family, friends, community, and complete strangers. This bill will help my future and the generations after me. Please ignite the change that our island needs. Say no to oxybenzone and octinoxate. Let's stop polluting our ocean and revive the health of the reefs and the entire ecosystem.

Thank you for your consideration.

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 5:36:03 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Shannon Rudolph	Individual	Support	No

Comments:

Strongly Support! What are we waiting for???? Just do it!

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 6:33:15 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Debbie Millikan	Individual	Support	No

Comments:

Dear Chair Luke,

Thank you for hearing bill SB2571 and allowing me the opportunity to testify in SUPPORT of this bill. **SB2571** Bans the sale or distribution in the State of any sunscreen that contains oxybenzone or octinoxate. We have alternative sunscreens that won't harm our coral reefs and marine environment like these chemicals do.

Please pass SB2571.

Best regards,

Debbie Millikan

April 4, 2018

TO:

Representative Sylvia Luke, Chair
Representative Ty J.K. Cullen, Vice Chair



Members of the House Committee on Finance
Twenty-Ninth Legislature
Regular Session of 2018

FROM:

The members of the Hawaii Skin Cancer Coalition

**RE: OPPOSITION to Senate Bill 2571, SD2 – RELATING TO WATER POLLUTION
Hearing Date – Wednesday, April 4, 2018**

Dear Chair Luke, Vice Chair Cullen, and Members of the Committee,

Mahalo for the opportunity to submit testimony in strong OPPOSITION to Senate Bill 2571, Senate Draft 2 (SB2571-SD2) on behalf of the Hawaii Skin Cancer Coalition. This Bill, SB2571-D2 proposes to ban the sale, offer for sale, or distribution in the State of any SPF sunscreen protection personal care products that contain oxybenzone or octinoxate, or both, without a prescription issued by a licensed healthcare provider.

The publicity surrounding this bill has created tremendous misconceptions regarding the effects of sunscreens containing these ingredients on our precious coral reef ecologies. The Hawaii Skin Cancer Coalition members emphasize that the scientific studies identified to support Senate Bill 2571 do not substantiate the contention that these chemicals, when used as ingredients in sunscreen contribute significantly to the degradation of coral reefs. Further, there is no evidence that banning or reducing their use will favorably affect coral reefs.

We agree that damage to coral reefs is precipitated by human interaction. However the primary sources of this damage are not swimmers wearing sunscreen, but rather land-based source pollution (e.g., industrial waste), over-fishing, invasive species, and climate change. In fact, the foundational studies that report reef effects of oxybenzone and octinoxate (Lim 2016, Kim 2014, Downs 2014) were conducted in laboratory settings and did not test the actual risks to coral in a natural setting. One study even states that the sample obtained for testing from Hawaii's coral reefs had minimally detectable levels of oxybenzone and octinoxate (Downs 2014).

In fact, banning sunscreen products that contain oxybenzone or octinoxate in favor of “reef safe” products opens the door to potentially more harm, both to our reef to individuals at risk for skin cancers. The ingredients of many “reef safe” products currently have not been tested for their

The Hawaii Skin Cancer Coalition's mission is to provide clear, concise messages on skin cancer prevention, early detection, and effective treatment for both the public and health professionals based upon current and accurate information. The Coalition is a collaborative effort between concerned local organizations and businesses including, the University of Hawaii Cancer Center, American Cancer Society, Hawaii Pathologists' Laboratory, the Friends of the University of Hawai'i Cancer Center, the Hawai'i Dermatological Society, Kaiser Permanente, Kuakini Health System, the Hawai'i Lifeguard Association, Spotlight Hawaii Publishing, Queen's Healthcare Plan, Dermatology Nurses Association-Hawaii Chapter, and the Hawaii Ophthalmological Society and Planet Sun All of these organizations share a common goal to help prevent skin cancer.

environmental effects or, to our knowledge, for their ability to provide adequate sun protection according to standards set by the U.S. Food and Drug Administration. Their acceptability to the public has been mixed in online reviews of some “reef safe” sunscreen products.

Morbidity and deaths from skin cancers are on the rise in the U.S. and Hawaii. The current focus of Hawaii’s legislative policy limiting the sale of sunscreen products will undermine years of progress towards addressing the effects of unprotected sun exposure, a primary risk factor for skin cancer. The leading scientific agencies in the U.S., all emphasize that using sunscreens is a critical part of regimens to prevent skin cancers, along with protective clothing, hats with brims, and shade. In open water, hats and shade are not options.

According to the National Cancer Institute, nearly 5 million people in the US and at the cost of over 8 billion dollars to our U.S. health care system..In Hawaii, ~7,000 people are treated for skin cancers each year. Melanoma, the deadliest form of skin cancer, is now the second most common form of cancer for females aged 15-29 years old. Each year more than 10,000 people die of melanoma across the U.S. In Hawaii, 400 people are diagnosed, and ~50 people die each year.

It is essential that we conduct valid research to understand the potential environmental effects of sunscreen use better to protect Hawaii’s natural resources. Currently, there is insufficient scientific evidence demonstrating that oxybenzone and octinoxate are responsible for coral bleaching. The Hawaii Skin Cancer Coalition members suggest that Hawaii’s legislators put forth efforts and resources to utilize the vast scientific expertise found at the University of Hawaii, including its world-renowned School of Ocean and Earth Science and Technology, and the Department of Chemistry, to identify the cause of coral decline and develop and test safe and effect sunscreen products in collaboration with the many environmental advocacy groups in support of this bill.

We believe that together, we can work simultaneously towards the development of effective, affordable and acceptable sunscreen products that are effective for cancer prevention and safe for our environment. We can also initiate efforts to address and ameliorate other major causes of damage to coral reefs. Thank you for the opportunity to submit testimony on behalf of the Hawaii Skin Cancer Coalition. For more information, please contact us at HawaiiSkincancerCoalition.org.

Sincerely

Kevin Cassel, DrPH
President, Hawaii Skin Cancer Coalition

Karen Glanz, PhD, MPH
Visiting Professor, U. H. Cancer Center

The Hawaii Skin Cancer Coalition’s mission is to provide clear, concise messages on skin cancer prevention, early detection, and effective treatment for both the public and health professionals based upon current and accurate information. The Coalition is a collaborative effort between concerned local organizations and businesses including, the University of Hawaii Cancer Center, American Cancer Society, Hawaii Pathologists’ Laboratory, the Friends of the University of Hawai’i Cancer Center, the Hawai’i Dermatological Society, Kaiser Permanente, Kuakini Health System, the Hawai’i Lifeguard Association, Spotlight Hawaii Publishing, Queen’s Healthcare Plan, Dermatology Nurses Association-Hawaii Chapter, and the Hawaii Ophthalmological Society and Planet Sun All of these organizations share a common goal to help prevent skin cancer.

REFERENCES

Downs CA, Kramarsky-Winter E, Segal R, Fauth J, Knutson S, Bronstein O, Ciner FR, Jeger R, Lichtenfeld Y, Woodley CM, Pennington P. Toxicopathological effects of the sunscreen UV filter, Oxybenzone (Benzophenone-3), on coral planulae and cultured primary cells and its environmental contamination in Hawaii and the US Virgin Islands. *Archives of environmental contamination and toxicology*. 2016 Feb 1;70(2):265-88.

Kim S, Choi K. Occurrences, toxicities, and ecological risks of benzophenone-3, a common component of organic sunscreen products: a mini-review. *Environment international*. 2014 Sep 30;70:143-57.

Lim HW, James WD, Rigel DS, Maloney ME, Spencer JM, Bhushan R. Adverse effects of ultraviolet radiation from the use of indoor tanning equipment: time to ban the tan. *Journal of the American Academy of Dermatology*. 2011 Apr 30;64(4):e51-60

LATE

April 4, 2018

The Honorable Sylvia Luke
Chairman, Committee on Finance
Hawaii State Capitol, Room 308
415 South Beretania Street
Honolulu, HI 96813

RE: Opposition to SB 2571, SD 1, HD 2 – relating to water pollution

Dear Chairman Luke:

On behalf of the Consumer Healthcare Products Association (CHPA), the 136-year old national trade association representing the leading manufacturers of over-the-counter medication, I am writing to express opposition to SB 2571, SD 1, HD 2 under consideration by the House Committee on Finance (FIN) on Wednesday, April 4th. SB 2571, SD 1, HD 2 seeks to regulate the Food and Drug Administration (FDA) approved ingredient oxybenzone in sunscreen. While we applaud attempts to limit coral decline in Hawaii, we have strong reservations of doing so by limiting access to safe ingredients which have proven benefits against deadly skin cancers.

Oxybenzone is a safe, and effective ingredient approved by the FDA in 1978 and found in nearly 2000 personal care products on the market today including some of the most popular sunscreens, lip balms, and lotions designed to guard against sun damage. In fact, oxybenzone offers broad spectrum protection against both ultraviolet A (UVA) and ultraviolet B (UVB) rays that often contribute to skin cancer.

Overwhelmingly, published research implicates global climate change as the proximate cause of coral bleaching. Secondary coral stressors include over-fishing, runoff and acidification. There are only two isolated laboratory studies which claim an association between oxybenzone exposure and coral bleaching utilizing conditions that are not indicative of a natural setting.

There is no reason to believe that these sunscreen ingredients will affect coral in the reef setting. Researchers from the Hawai`i Institute of Marine Biology at the University of Hawai`i, Kane`ohe recently suggested that localized heating and circulation patterns were primarily responsible for coral bleaching events observed across the Hawaiian Islands¹. Studies performed by highly respected organizations such as the National Oceanic and Atmospheric Administration (NOAA), employing decades of data, have also implicated warming water as responsible for coral bleaching events.²

When the current state of research into the causes underlying large scale bleaching of coral reef populations throughout the world is viewed in its entirety, it is prodigiously apparent that changes in ocean temperature (warming) are responsible for the vast majority of these events. Banning the use of two sunscreen ingredients which have been shown to be safe and effective in reducing the amount of ultraviolet (UV) radiation exposure that can cause melanoma and other skin cancers would likely produce no measurable effect on coral reef populations while at the same time resulting in harm to overall public health.

¹ [Rodgers, K.S. et al., 2017 Patterns of bleaching and mortality following widespread warming events in 2014 and 2015 at the Hanauma Bay Nature Preserve, Hawai`I, Peer J https://doi.org/10.7717/peerj.3355](https://doi.org/10.7717/peerj.3355)

² National Oceanic and Atmospheric Administration, 2017 Acoustic Characterization of Mesophotic Coral Reef Ecosystems of West Hawai`i, available at https://data.nodc.noaa.gov/coris/library/NOAA/CRCP/NMFS/PIFSC/Projects/467/Suka2017_Tech_Memo_NMFS-PIFSC-61.pdf (accessed January 29, 2018)

Consumer Healthcare Products Association
Opposition to SB 2571, SD 1, HD 2
April 4, 2018 - Page 2 of 2

For this reason, we ask that the House FIN Committee to withdraw the proposal to ban oxybenzone. A greater standard of evidence must be considered before such a valuable product to people's health be banned from use or sale.

Should you have any questions for CHPA, please contact me directly or our local counsel, Ms. Lauren Zirbel at 808-294-9968 or laurenzirbel@gmail.com.

Respectfully submitted,

A handwritten signature in blue ink that reads "Carlos I. Gutierrez". The signature is fluid and cursive, with the first name "Carlos" and last name "Gutierrez" clearly legible.

Carlos I. Gutiérrez
Vice President, State & Local Government Affairs
Consumer Healthcare Products Association
(202) 429-3521 cgutierrez@chpa.org

Cc: Members, House Committee on Finance

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 8:05:00 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Scott R. Atkinson	Individual	Support	No

Comments:

I am very much in support of SB 2571 restricting the sale and or distribution of sunscreens containing oxybenzone and octinoxate. There are many safe and affordable alternatives that do not impact coral reefs and are better for human beings as well. I urge the Senate to pass this important bill.

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 9:50:12 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kathleen Elliott	Individual	Support	No

Comments:

I am a health care provider, a Physician Assistant and have lived in Honolulu since 1974. I urge you to pass SB2571. I have been a swimmer in Hawaiian waters since 1974 and have done numerous Waikiki Roughwater Swims and spent many hours swimming and snorkeling. While I find it challenging myself to find the right sunscreen, I do know that the oxybenzone is very harmful to our corals. There are several bills in front of the legislature aiming to protect our environment, and I'm excited about that! We have gone too long allowing many environmental problems to grow. Did you hear what the people of Rapa Nui (Easter Island) said to the crew member of HÅ• kÅ«le'a when asked how they keep their islands so clean and free of litter and waste? They said, they use Hawai'i as an example of what NOT to do! What NOT to do! Is that the legacy we want to leave? How we messed up our beautiful islands and environment? Please pass this bill.

Kathleen Elliott, RN, PA-C

Honolulu, Hawai'i

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 8:30:46 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Barry Brunt	Individual	Support	No

Comments:

Thank you for granting a hearing on SB2571. I would urge you to support this bill. It is important to protecting our island, protecting tourism, and contributing to our economy. In short everything that is a part of Hawaii.

The one change I would suggest is to amend the effective date of the bill. I believe the bill should be effective starting in 2019 not 2021. The longer we delay the implementation of the bill the greater the potential for future damage. Please don't be a part of the problem, be a part of the solution and support this bill with an amendment of a start date in 2019.

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 8:30:58 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Marissa Miller	Individual	Support	No

Comments:

Aloha,

I strongly encourage and request that you pass SB2571. There are numerous benefits to banning the chemicals oxybenzone and octinoxate in Hawaii. As a representative of the youth in Hawaii, I strongly believe that this is an important issue for our politicians to address, because it concerns the health of Hawaii's residents as well as the health of the environment in my future. The aforementioned chemicals have been scientifically proven to have toxic and detrimental effects on people, marine life, and corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water, restoration can not happen. We need to ensure that we have healthy coral reefs in order to support our marine ecosystems and protect lives as well as our economy (which relies heavily on having healthy marine ecosystems).

There are much more safe, efficient options presently available in Hawai'i, and these harsh chemicals must be phased out. Please take action to protect the health of Hawaii residents, visitors, marine life, and environment by passing this bill.

"It is never too late to start, but it is always too late to wait." We are at a crossroads when it comes to environmental issues. It is crucial for us to take steps in the right direction, before it is too late. Hawaii must lead the way to a sustainable future, and it starts with legislation like this.

Mahalo for your time and consideration.

-Marissa Miller

LATE

SB-2571-HD-1

Submitted on: 4/4/2018 9:59:07 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Laura Moritz	Individual	Support	No

Comments:

I respectfully and urgently request you pass SB2571. If oxybenzone and octinoxate are in the water, coral restoration cannot occur. These chemicals are inefficient active sunscreen ingredients and cause severe damage to marine life and corals -- some of the most precious resources for our Hawaii community.

There is no logical reason to allow use of these chemicals when they damage our marine resources and provide less effective skin care protection than other, safer zinc oxide based products.

Toxic chemicals have no place in our reefs. Please pass this bill!

LATE

SB-2571-HD-1

Submitted on: 4/4/2018 9:33:30 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kaliko Amona	Individual	Support	No

Comments:

Please protect the health of our people and the environment and stop the sale of these chemical sunscreens. They are dangerous and not needed--there are plenty of other safe options.

Mahalo

LATE

SB-2571-HD-1

Submitted on: 4/4/2018 11:20:36 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Alicia Rittenberry	Student Ohana for Sustainability	Support	No

Comments:

04/04/18

COMMITTEE ON FINANCE

Aloha and thank you for allowing us the opportunity to weigh in on this important water resource management bill. My name is Alicia Rittenberry and I am representing The Student Ohana for Sustainability (SOS), a student led organization based at the University of Hawaii Maui College that works towards the goals of creating a sustainable Maui and Hawaii. We support including restrictions on the sale of sunscreen containing oxybenzone and octinoxate to coral reefs. Coral reefs are incredibly important for marine ecosystems, culture, and to the economy. It has been estimated that Hawaii's nearshore reefs annually generate \$800 million in gross revenues and \$34 million for Kihei alone. Reefs provide an ecosystem for many marine organisms, protect the shoreline by dispersing wave energy, which lessens storm damage, and provide recreational and cultural value.

There are many increasing threats to the health of the world's coral. One that has recently been discovered are ingredients found in many sunscreens. Oxybenzone negatively impacts coral health in several different ways and is a threat to Hawaii's reefs in particular. Oxybenzone can be toxic to baby coral at levels as low as 62 parts per trillion. That's the equivalent to one drop in 6.5 Olympic swimming pools. In a 2015 study, 11 out of 13 tested areas in Maui's waters showed levels several times that amount. Recently published studies prove Oxybenzone and Octinoxate are having negative impacts on a variety of marine organisms, including sea urchins, algae (including limu), and fish that depend on the ability to change sex, such as parrotfish and wrasse. Oxybenzone can also negatively impact human health, especially in children, and was named the Contact Allergen of the Year in 2014 by the American Contact Dermatitis Society. Because of the many negative effects of oxybenzone and octinoxate, sunscreens containing these ingredients should not be sold or used in Hawaii. The most dangerous threat to coral reef health is rising ocean temperatures, which is a complex issue that has many causes, is difficult for an individual to affect a change, and will take a significant amount of time to counter. In the meantime, we should stand up and be leaders and do all we can to give coral reefs, that are so

important to us, every opportunity for success. Removing oxybenzone and octinoxate from the water could be immediate (if the bill takes effect sooner than 45 years from now), there is only one targeted source, and it is easy for an individual to affect change.

There are safer alternatives that can protect the health of the people on our shores, such as clothing and zinc sunscreens. Zinc oxide, by the way, is the only fda approved sunscreen ingredient to offer completely full protection from both UVB and UVA rays.

FDA Monograph Sunscreen Ingredients	Amount of Ray Protection		Chemical (C) or Physical (P)
	UVA	UVB	
Aminobenzoic acid (PABA)	○	●	C
Avobenzene	●	◐	C
Cinoxate	◐	●	C
Dioxybenzone	◐	●	C
Ecamsule	●	◐	C
Homosalate	○	●	C
Menthyl anthranilate	◐	●	C
Octocrylene	◐	●	C
Octyl methoxycinnamate	◐	●	C
Octyl salicylate	○	●	C
Oxybenzone	◐	●	C
Padimate O	○	●	C
Phenylbenzimidazole	○	●	C
Sulisobenzene	◐	●	C
Titanium dioxide	◐	●	P
Trolamine salicylate	○	●	C
Zinc Oxide	●	●	P

Protection Level: ● = extensive ◐ = considerable ◑ = limited ○ = minimal

For the most up-to-date information on approved sunscreen ingredients, visit the FDA Web site at <www.fda.gov>.

So, as to the question of how well alternative products using this ingredient work, the answer is very well. As to the question of how available these products are, there are multiple stores that are able to exclusively carry sunscreens without oxybenzone and octinoxate. Down to earth, hawaiian moons, Mana foods, and several surf and snorkel shops, as well as snorkel boats. Longs/cvs in kihei has about a fourth of their sunscreen section dedicated to zinc sunscreens and even have their own store brand.

Some people point to education as the path to rid our marine ecosystem of these harmful chemicals. However, education can only go so far, as Jeff Bagshaw, steward of 'Ahihi Kina'u Natural Reserve, has testified to. For years now, Jeff, the SOS club, the Sierra club, and other organizations have made efforts to educate the public on the effects of these sunscreen ingredients and those we have spoken to have been

receptive and eager to change. And yet, testing for these chemicals done this past summer actually shows an increase from 2015. It is time for legislation.

The companies that produce toxic sunscreen reap the benefits of profits, yet we, the community, are paying the consequences. The environment not only provides us with our basic needs of survival, but is the backbone of our tourism based economy, provides leisure activities that we all enjoy, and gives many a spiritual connection to something greater than ourselves. My question that I please ask you to consider is, What is the benefit to our community to continue to allow the sale and use of products that poison the environment on which we depend when there are alternative products available? I understand there are valid concerns about logistical details, but I hope you can find a way to make this work and show the world that, in Hawaii, we value the health of our ecosystems and community. We do not support the few benefitting at the expense of the overall community. Please change this bill to take effect sooner than 45 years from now, when it will be our GRANDCHILDREN'S responsibility to see it through, if there is enough healthy reef ecosystem for it to matter.

Thank you for your consideration
Student Ohana for Sustainability

ar31@hawaii.edu

808-298-9337

April 4, 2018

TO:

Representative Sylvia Luke, Chair
Representative Ty J.K. Cullen, Vice Chair



Members of the House Committee on Finance
Twenty-Ninth Legislature
Regular Session of 2018

FROM:

The members of the Hawaii Skin Cancer Coalition

**RE: OPPOSITION to Senate Bill 2571, SD2 – RELATING TO WATER POLLUTION
Hearing Date – Wednesday, April 4, 2018**

Dear Chair Luke, Vice Chair Cullen, and Members of the Committee,

Mahalo for the opportunity to submit testimony in strong OPPOSITION to Senate Bill 2571, Senate Draft 2 (SB2571-SD2) on behalf of the Hawaii Skin Cancer Coalition. This Bill, SB2571-D2 proposes to ban the sale, offer for sale, or distribution in the State of any SPF sunscreen protection personal care products that contain oxybenzone or octinoxate, or both, without a prescription issued by a licensed healthcare provider.

The publicity surrounding this bill has created tremendous misconceptions regarding the effects of sunscreens containing these ingredients on our precious coral reef ecologies. The Hawaii Skin Cancer Coalition members emphasize that the scientific studies identified to support Senate Bill 2571 do not substantiate the contention that these chemicals, when used as ingredients in sunscreen contribute significantly to the degradation of coral reefs. Further, there is no evidence that banning or reducing their use will favorably affect coral reefs.

We agree that damage to coral reefs is precipitated by human interaction. However the primary sources of this damage are not swimmers wearing sunscreen, but rather land-based source pollution (e.g., industrial waste), over-fishing, invasive species, and climate change. In fact, the foundational studies that report reef effects of oxybenzone and octinoxate (Lim 2016, Kim 2014, Downs 2014) were conducted in laboratory settings and did not test the actual risks to coral in a natural setting. One study even states that the sample obtained for testing from Hawaii's coral reefs had minimally detectable levels of oxybenzone and octinoxate (Downs 2014).

In fact, banning sunscreen products that contain oxybenzone or octinoxate in favor of “reef safe” products opens the door to potentially more harm, both to our reef to individuals at risk for skin cancers. The ingredients of many “reef safe” products currently have not been tested for their

The Hawaii Skin Cancer Coalition's mission is to provide clear, concise messages on skin cancer prevention, early detection, and effective treatment for both the public and health professionals based upon current and accurate information. The Coalition is a collaborative effort between concerned local organizations and businesses including, the University of Hawaii Cancer Center, American Cancer Society, Hawaii Pathologists' Laboratory, the Friends of the University of Hawai'i Cancer Center, the Hawai'i Dermatological Society, Kaiser Permanente, Kuakini Health System, the Hawai'i Lifeguard Association, Spotlight Hawaii Publishing, Queen's Healthcare Plan, Dermatology Nurses Association-Hawaii Chapter, and the Hawaii Ophthalmological Society and Planet Sun All of these organizations share a common goal to help prevent skin cancer.

environmental effects or, to our knowledge, for their ability to provide adequate sun protection according to standards set by the U.S. Food and Drug Administration. Their acceptability to the public has been mixed in online reviews of some “reef safe” sunscreen products.

Morbidity and deaths from skin cancers are on the rise in the U.S. and Hawaii. The current focus of Hawaii’s legislative policy limiting the sale of sunscreen products will undermine years of progress towards addressing the effects of unprotected sun exposure, a primary risk factor for skin cancer. The leading scientific agencies in the U.S., all emphasize that using sunscreens is a critical part of regimens to prevent skin cancers, along with protective clothing, hats with brims, and shade. In open water, hats and shade are not options.

According to the National Cancer Institute, nearly 5 million people in the US and at the cost of over 8 billion dollars to our U.S. health care system..In Hawaii, ~7,000 people are treated for skin cancers each year. Melanoma, the deadliest form of skin cancer, is now the second most common form of cancer for females aged 15-29 years old. Each year more than 10,000 people die of melanoma across the U.S. In Hawaii, 400 people are diagnosed, and ~50 people die each year.

It is essential that we conduct valid research to understand the potential environmental effects of sunscreen use better to protect Hawaii’s natural resources. Currently, there is insufficient scientific evidence demonstrating that oxybenzone and octinoxate are responsible for coral bleaching. The Hawaii Skin Cancer Coalition members suggest that Hawaii’s legislators put forth efforts and resources to utilize the vast scientific expertise found at the University of Hawaii, including its world-renowned School of Ocean and Earth Science and Technology, and the Department of Chemistry, to identify the cause of coral decline and develop and test safe and effect sunscreen products in collaboration with the many environmental advocacy groups in support of this bill.

We believe that together, we can work simultaneously towards the development of effective, affordable and acceptable sunscreen products that are effective for cancer prevention and safe for our environment. We can also initiate efforts to address and ameliorate other major causes of damage to coral reefs. Thank you for the opportunity to submit testimony on behalf of the Hawaii Skin Cancer Coalition. For more information, please contact us at HawaiiSkincancerCoalition.org.

Sincerely

Kevin Cassel, DrPH
President, Hawaii Skin Cancer Coalition

Karen Glanz, PhD, MPH
Visiting Professor, U. H. Cancer Center

The Hawaii Skin Cancer Coalition’s mission is to provide clear, concise messages on skin cancer prevention, early detection, and effective treatment for both the public and health professionals based upon current and accurate information. The Coalition is a collaborative effort between concerned local organizations and businesses including, the University of Hawaii Cancer Center, American Cancer Society, Hawaii Pathologists’ Laboratory, the Friends of the University of Hawai’i Cancer Center, the Hawai’i Dermatological Society, Kaiser Permanente, Kuakini Health System, the Hawai’i Lifeguard Association, Spotlight Hawaii Publishing, Queen’s Healthcare Plan, Dermatology Nurses Association-Hawaii Chapter, and the Hawaii Ophthalmological Society and Planet Sun All of these organizations share a common goal to help prevent skin cancer.

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Lim HW, James WD, Rigel DS, Maloney ME, Spencer JM, Bhushan R. Adverse effects of ultraviolet radiation from the use of indoor tanning equipment: time to ban the tan. *Journal of the American Academy of Dermatology*. 2011 Apr 30;64(4):e51-60

LATE

April 4, 2018

The Honorable Sylvia Luke
Chairman, Committee on Finance
Hawaii State Capitol, Room 308
415 South Beretania Street
Honolulu, HI 96813

RE: Opposition to SB 2571, SD 1, HD 2 – relating to water pollution

Dear Chairman Luke:

On behalf of the Consumer Healthcare Products Association (CHPA), the 136-year old national trade association representing the leading manufacturers of over-the-counter medication, I am writing to express opposition to SB 2571, SD 1, HD 2 under consideration by the House Committee on Finance (FIN) on Wednesday, April 4th. SB 2571, SD 1, HD 2 seeks to regulate the Food and Drug Administration (FDA) approved ingredient oxybenzone in sunscreen. While we applaud attempts to limit coral decline in Hawaii, we have strong reservations of doing so by limiting access to safe ingredients which have proven benefits against deadly skin cancers.

Oxybenzone is a safe, and effective ingredient approved by the FDA in 1978 and found in nearly 2000 personal care products on the market today including some of the most popular sunscreens, lip balms, and lotions designed to guard against sun damage. In fact, oxybenzone offers broad spectrum protection against both ultraviolet A (UVA) and ultraviolet B (UVB) rays that often contribute to skin cancer.

Overwhelmingly, published research implicates global climate change as the proximate cause of coral bleaching. Secondary coral stressors include over-fishing, runoff and acidification. There are only two isolated laboratory studies which claim an association between oxybenzone exposure and coral bleaching utilizing conditions that are not indicative of a natural setting.

There is no reason to believe that these sunscreen ingredients will affect coral in the reef setting. Researchers from the Hawai`i Institute of Marine Biology at the University of Hawai`i, Kane`ohe recently suggested that localized heating and circulation patterns were primarily responsible for coral bleaching events observed across the Hawaiian Islands¹. Studies performed by highly respected organizations such as the National Oceanic and Atmospheric Administration (NOAA), employing decades of data, have also implicated warming water as responsible for coral bleaching events.²

When the current state of research into the causes underlying large scale bleaching of coral reef populations throughout the world is viewed in its entirety, it is prodigiously apparent that changes in ocean temperature (warming) are responsible for the vast majority of these events. Banning the use of two sunscreen ingredients which have been shown to be safe and effective in reducing the amount of ultraviolet (UV) radiation exposure that can cause melanoma and other skin cancers would likely produce no measurable effect on coral reef populations while at the same time resulting in harm to overall public health.

¹ [Rodgers, K.S. et al., 2017 Patterns of bleaching and mortality following widespread warming events in 2014 and 2015 at the Hanauma Bay Nature Preserve, Hawai`I, Peer J https://doi.org/10.7717/peerj.3355](https://doi.org/10.7717/peerj.3355)

² National Oceanic and Atmospheric Administration, 2017 Acoustic Characterization of Mesophotic Coral Reef Ecosystems of West Hawai`i, available at https://data.nodc.noaa.gov/coris/library/NOAA/CRCP/NMFS/PIFSC/Projects/467/Suka2017_Tech_Memo_NMFS-PIFSC-61.pdf (accessed January 29, 2018)

Consumer Healthcare Products Association
Opposition to SB 2571, SD 1, HD 2
April 4, 2018 - Page 2 of 2

For this reason, we ask that the House FIN Committee to withdraw the proposal to ban oxybenzone. A greater standard of evidence must be considered before such a valuable product to people's health be banned from use or sale.

Should you have any questions for CHPA, please contact me directly or our local counsel, Ms. Lauren Zirbel at 808-294-9968 or laurenzirbel@gmail.com.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Carlos I. Gutierrez".

Carlos I. Gutiérrez
Vice President, State & Local Government Affairs
Consumer Healthcare Products Association
(202) 429-3521 cgutierrez@chpa.org

Cc: Members, House Committee on Finance

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 8:05:00 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Scott R. Atkinson	Individual	Support	No

Comments:

I am very much in support of SB 2571 restricting the sale and or distribution of sunscreens containing oxybenzone and octinoxate. There are many safe and affordable alternatives that do not impact coral reefs and are better for human beings as well. I urge the Senate to pass this important bill.

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 9:50:12 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kathleen Elliott	Individual	Support	No

Comments:

I am a health care provider, a Physician Assistant and have lived in Honolulu since 1974. I urge you to pass SB2571. I have been a swimmer in Hawaiian waters since 1974 and have done numerous Waikiki Roughwater Swims and spent many hours swimming and snorkeling. While I find it challenging myself to find the right sunscreen, I do know that the oxybenzone is very harmful to our corals. There are several bills in front of the legislature aiming to protect our environment, and I'm excited about that! We have gone too long allowing many environmental problems to grow. Did you hear what the people of Rapa Nui (Easter Island) said to the crew member of HÅ• kÅ«le'a when asked how they keep their islands so clean and free of litter and waste? They said, they use Hawai'i as an example of what NOT to do! What NOT to do! Is that the legacy we want to leave? How we messed up our beautiful islands and environment? Please pass this bill.

Kathleen Elliott, RN, PA-C

Honolulu, Hawai'i

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 8:30:46 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Barry Brunt	Individual	Support	No

Comments:

Thank you for granting a hearing on SB2571. I would urge you to support this bill. It is important to protecting our island, protecting tourism, and contributing to our economy. In short everything that is a part of Hawaii.

The one change I would suggest is to amend the effective date of the bill. I believe the bill should be effective starting in 2019 not 2021. The longer we delay the implementation of the bill the greater the potential for future damage. Please don't be a part of the problem, be a part of the solution and support this bill with an amendment of a start date in 2019.

LATE

SB-2571-HD-1

Submitted on: 4/3/2018 8:30:58 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Marissa Miller	Individual	Support	No

Comments:

Aloha,

I strongly encourage and request that you pass SB2571. There are numerous benefits to banning the chemicals oxybenzone and octinoxate in Hawaii. As a representative of the youth in Hawaii, I strongly believe that this is an important issue for our politicians to address, because it concerns the health of Hawaii's residents as well as the health of the environment in my future. The aforementioned chemicals have been scientifically proven to have toxic and detrimental effects on people, marine life, and corals. Regardless of how corals may be stressed, if oxybenzone and octinoxate are in the water, restoration can not happen. We need to ensure that we have healthy coral reefs in order to support our marine ecosystems and protect lives as well as our economy (which relies heavily on having healthy marine ecosystems).

There are much more safe, efficient options presently available in Hawai'i, and these harsh chemicals must be phased out. Please take action to protect the health of Hawaii residents, visitors, marine life, and environment by passing this bill.

"It is never too late to start, but it is always too late to wait." We are at a crossroads when it comes to environmental issues. It is crucial for us to take steps in the right direction, before it is too late. Hawaii must lead the way to a sustainable future, and it starts with legislation like this.

Mahalo for your time and consideration.

-Marissa Miller

LATE

SB-2571-HD-1

Submitted on: 4/4/2018 9:59:07 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Laura Moritz	Individual	Support	No

Comments:

I respectfully and urgently request you pass SB2571. If oxybenzone and octinoxate are in the water, coral restoration cannot occur. These chemicals are inefficient active sunscreen ingredients and cause severe damage to marine life and corals -- some of the most precious resources for our Hawaii community.

There is no logical reason to allow use of these chemicals when they damage our marine resources and provide less effective skin care protection than other, safer zinc oxide based products.

Toxic chemicals have no place in our reefs. Please pass this bill!

LATE

SB-2571-HD-1

Submitted on: 4/4/2018 9:33:30 AM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kaliko Amona	Individual	Support	No

Comments:

Please protect the health of our people and the environment and stop the sale of these chemical sunscreens. They are dangerous and not needed--there are plenty of other safe options.

Mahalo



LATE

TO: Honorable Chair Luke and Members of the Committee on Finance, 4-4-18, 230pm

SUBMITTED BY: Inga Gibson, Policy Consultant, For the Fishes
ponoadvocacy@gmail.com, 808.922.9910

RE: SUPPORT for SB2571 SD2 HD1, Relating to Water Pollution

For the Fishes supports SB2571 which, if enacted, would prohibit the sale, offer for sale, or distribution for sale of non-prescription SPF sunscreen products containing octinoxate or oxybenzone, unless the product is sold or distributed to fulfill a prescription.

Numerous studies have shown that oxybenzone in the marine environment can be harmful to coral reefs and marine life (Kim et al. 2014; Kim & Choi 2014; Tsui et al. 2014; Downs et al. 2015). These studies clearly indicate that oxybenzone poses a risk to fishes, through endocrine disruption and reproduction performance, for example, and to hard corals through bleaching. These threats are heightened in marine recreational areas frequented by beach goers, swimmers, snorkelers and divers whose sunscreen washes off when they enter the water. Worldwide, it is estimated that 90% of snorkeling or diving tourists are concentrated on 10% of the reefs (US National Park Service). Hawaii’s MLCDs have an abundance of fishes compared to the majority of the state’s reefs which are severely depleted. This abundance of wildlife is a major draw to tourists and, Hawaii’s most beautiful and popular reefs are likely exposed to the most sunscreen pollution.

It has been estimated that 4,000 – 14,000 tons of sunscreen enters coral reef areas around the world annually (U.S. National Park Service, Downs et al. 2015). Surveys around Hawaii’s coral reefs found oxybenzone levels at concentrations 12 times higher than the level at which it impacts juvenile coral (Downs et al. 2015).

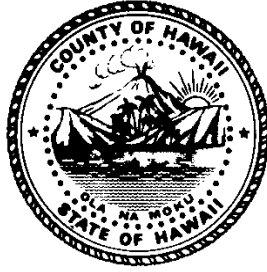
The unprecedented coral bleaching events of 2014 and 2015 had devastating effects on Hawaii’s corals. A 2016 report by The Nature Conservancy found of 32 – 90% of bleached coral colonies died in some West Hawaii areas. New research shows that by mid-century, coral reefs will annually experience the heat stress that causes bleaching, and the authors conclude that the future conditions of reefs depends on both the reduction of global emissions and our capacity to build resilience to bleaching through management of local stressors (Hughes et al. 2018). Though oxybenzone may be just one of many stressors impacting Hawaii’s coral reefs, the inevitability of future ocean warming events and subsequent coral bleaching makes it imperative to reduce the stressors to corals and increase their potential to

recover and survive.

We respectfully urge the Committee's support of this measure which will help reduce oxybenzone pollution and harm to Hawaii's coral reefs and wildlife.

Thank you for this opportunity to provide testimony.

JEN RUGGLES
Council Member
District 5 – Puna Mauka,
Pahoa Mauka, Kalapana



*Public Works & Parks and Recreation
Committee Chair
Public Safety & Mass Transit
Committee Chair*

*Phone: 808-961-8263
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*Hawai'i County Building
25 Aupuni St. Suite 1402
Hilo, HI 96720*

HAWAI'I COUNTY COUNCIL

April 4, 2018

LATE

Re: In support of SB 2571 SD2

Dear Chair ____ and Vice Chair ____ and members of the committee on ____

Due all of the legitimate concerns you have already received in testimony, I was prepared to introduce legislation banning oxybenzone and octinoxate at the beaches in Hawaii County. However, to have police patrolling our beaches searching suspicious sunscreen user's beach bags was simply not realistic. Consequently, as the counties do not have the authority to ban these toxic chemicals at the point of sale, we look to your leadership.

I am in full support of SB 2571, as it is responsible legislation that takes a toxic product out of our oceans. Thank you for the opportunity to provide comment on this matter.

Sincerely,

FIN-Jo

From: moody. <indiekidmary@gmail.com>
Sent: Wednesday, April 4, 2018 8:24 AM
To: FINTestimony
Subject: Testimony SB2571 SD2 HD1



Testimony in SUPPORT of SB2571 SD2 HD1
Finance Committee; Rep Sylvia Luke, Chair; Rep Ty J.K. Cullen, Vice Chair
Wednesday April 4, 2018; 2:30 PM; Conference Room 308

Hello, I am writing to request that you pass SB2571. There are numerous reasons to ban oxybenzone and octinoxate in Hawaii including toxic effects to people, marine life, and specifically corals. As a surfer the effects of sunscreen are seen everyday, especially in the more populated waters of Kona. Our coral reef is immensely stressed by toxicity of the use of sunscreens as well as our Island practice of using cess pools. If oxybenzone and octinoxate are in the water restoration can not happen. These are two of the most inefficient active sunscreen ingredients and give people a false sense of broad spectrum protection, which may explain an increase in skin cancers. There are much more safe, efficient options presently available from small businesses who are working to make a big impact with the ingredients they are using. Mahalo.

LATE

SB-2571-HD-1

Submitted on: 4/4/2018 1:47:55 PM

Testimony for FIN on 4/4/2018 2:30:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jennifer H. Sawchuk	Individual	Support	No

Comments:

Aloha,

Thank you for this opportunity to comment on bill SB2571, banning the sales of sunscreens with oxybenzone and octinoxate.

I support this bill as it is one important step in safeguarding Hawaii's natural resources, which are invaluable in terms of economic, cultural, and aesthetic value. Well-regarded science shows that these chemicals cause serious harm and death to coral reefs, which provide food and homes for fish and invertebrates important to the ecosystem; attract millions of tourists and tourist dollars important to the local economy; and provide a valued resource to residents who value them as an important part of Hawai'i.

I hope this bill and similar bills which safeguard our invaluable and precious marine resources will pass.

Mahalo,

Jennifer H. Sawchuk, Marine Biologist