



SB2571
RELATING TO WATER POLLUTION
Senate Committee on Water and Land
Senate Committee on Agriculture and Environment

February 7, 2018

1:20 p.m.

Room 224

The Administration of the Office of Hawaiian Affairs (OHA) will recommend that the Board of Trustees **SUPPORT** SB2571, 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-

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.

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 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.

Accordingly, OHA urges the Committees to **PASS** SB2571. Thank you for the opportunity to testify on this measure.

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 Senate Committees on
WATER AND LAND
and
AGRICULTURE AND ENVIRONMENT**

**Wednesday, February 7, 2018
1:20 PM
State Capitol, Conference Room 224**

**In consideration of
SENATE BILL 2571
RELATING TO WATER POLLUTION**

Senate Bill 2571 proposes to ban the sale, offer for 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. **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. 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. The Department defers to the Department of Health on human health-related issues, and on the implementation and enforcement of any oxybenzone and octinoxate sale and distribution provisions.

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

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

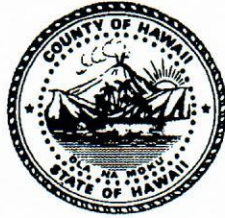
AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

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.

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

Senator Karl Rhoads
Chair, Senate Committee on Water and Land
Hawai'i State Senate

February 2, 2018

**Re: In Support of Senate Bill 2571, from Hawai'i County Council District 4
To be heard by WTL on 02-07-18 1:20PM in conference room 224**

Aloha Chair Rhoads 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

SB-2571

Submitted on: 2/6/2018 1:10:17 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Melodie Aduja	OCC Legislative Priorities	Oppose	No

Comments:

**PRESENTATION OF THE
OAHU COUNTY COMMITTEE ON LEGISLATIVE PRIORITIES
DEMOCRATIC PARTY OF HAWAII
TO THE COMMITTEE ON WATER AND
LAND AND
COMMITTEE ON AGRICULTURE AND ENVIRONMENT
THE SENATE
TWENTY-NINTH LEGISLATURE
REGULAR SESSION OF 2018
Wednesday, February 7, 2018
1:20 p.m.
Hawaii State Capitol, Conference Room 224**

RE: Testimony in Support of SB 2571, RELATING TO WATER POLLUTION

To the Honorable Karl Rhoads, Chair; the Honorable Mike Gabbard, Vice-Chair, and Members of the Committee on Water and Land:

To the Honorable Mike Gabbard, Chair; the Honorable Gil Riviere, Vice-Chair, and Members of the Committee on Agriculture and Environment:

Good afternoon. My name is Melodie Aduja. I serve as Chair of the Oahu County (“OCC”) Legislative Priorities Committee of the Democratic Party of Hawaii. Thank you for the opportunity to provide written testimony on Senate Bill

No. 2571 regarding the prohibition against the sale and usage of sunscreen protection personal care products that contain oxybenzone and octinoxate with the exception of a medically-licensed prescription.

The OCC Legislative Priorities Committee is in opposition to Senate Bill No .2571 and opposes its passage.

Senate Bill No.2571 is in contradiction with the Platform of the Democratic Party of Hawai'i ("DPH"), 2016, as, while it 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, it allows for the exception of a medically-licensed prescription. We oppose any and all exceptions to a complete ban on these products known to cause coral reef damage and other harmful adverse effects to our fragile marine ecosystem.

Specifically, the DPH Platform provides that we "support the democratic participation of citizens and residents to protect (i) valuable coastal ecosystems and reefs from misuse and (ii) beaches for public use and recreation. The Hawai'i Coastal Zon Management (CZM) law, HRS Chapter 205A, currently provides for public participation in the management of coastal resources." (Platform of the DPH, P. 8, Lines 427-430 (2016)).

Given that Senate Bill No. 2571 prohibits the sale and usage of sunscreen protection personal care products that contain oxybenzone and octinoxate with the exception of a medically-licensed prescription, it is the position of the OCC Legislative Priorities Committee to oppose this measure unless it is amended to eliminate the medically-licensed prescription exception to the ban.

Thank you very much for your kind consideration.

Sincerely yours,

/s/ **Melodie Aduja**

Melodie Aduja, Chair, OCC Legislative Priorities Committee

Email: legislativepriorities@gmail.com, Tel.: (808) 258-8889

SB-2571

Submitted on: 2/3/2018 5:20:10 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Benton Kealii Pang, Ph.D.	Hawaiian Civic Club of Honolulu	Support	No

Comments:



HAWAII MEDICAL ASSOCIATION

1360 S. Beretania Street, Suite 200, Honolulu, Hawaii 96814
Phone (808) 536-7702 Fax (808) 528-2376
www.hawaiimedicalassociation.org

TO: COMMITTEE ON WATER LAND & COMMITTEE ON AGRICULTURE

DATE: Wednesday, February 7, 2018

TIME: 1:20 p.m.

PLACE: Conference Room 224

FROM: Hawaii Medical Association
Dr. Christopher Flanders, DO, Executive Director
Lauren Zirbel, Community and Government Relations

Re: SB 2566

Position: Oppose

Given the lack of peer reviewed evidence suggesting that sunscreen is a cause of coral bleaching and the overwhelming evidence that not wearing sunscreen increases rates of deadly cancer, the HMA would like to propose that this issue be studied more deeply before passing a policy that would severely limit the availability of sunscreens that people are likely to wear on a daily basis.

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

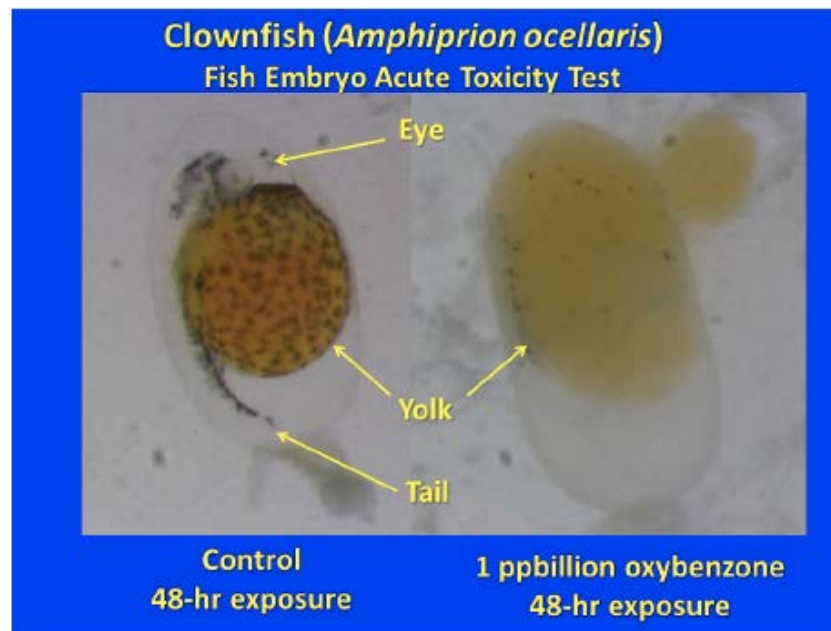
February 2, 2018

SUPPORTING Hawaii Legislative Bills That
Prohibit the Sale of SPF Sunscreen Products Containing Oxybenzone & Octinoxate

Dear Hawaii Legislative Chairperson and Committee Members,

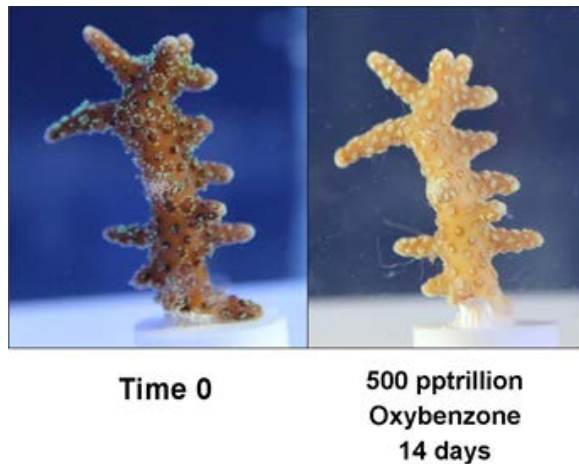
I was the lead scientist who co-authored the scientific paper in Archives of Environmental Contamination and Toxicology regarding the impact of oxybenzone on coral planula and oxybenzone contamination along the coasts of Hawai'i and the U.S. Virgin Islands. I am also a graduate of the **John A. Burns School of Medicine at the University of Hawai'i at Mānoa**.

Oxybenzone/Octinoxate in the marine environment can have detrimental effects to all marine life, including changes in fish behavior, pathological changes to fish sexual identity, damage to genomic and DNA integrity, and the developmental success of almost ALL of Hawaii's marine biodiversity. Its greatest **DANGER** is as a poison that can kill or maim juveniles of corals, sea urchins, and fish. This poison **THREATENS** the restoration of Hawaii's already degraded coral reefs by preventing juvenile marine life from recruiting into an area that is polluted by oxybenzone/octinoxate. The image below is what 1 part per billion OXYBENZONE can do to a fish embryo in 48 hours! This concentration can be seen soon after high tide in areas along Maui's West Coast and in many popular swimming areas/reefs along the coasts of Oahu and Kauai.



The SCIENCE is strong that Oxybenzone & Octinoxate poses a threat to marine life, from directly killing juveniles to inducing pathological behaviors in fish. There are at least 13 other scientific papers that have been published in peer-reviewed scientific journals since 2015 on the Ecotoxicology of Oxybenzone & Octinoxate on aquatic and marine life. There are over 25 papers in the scientific literature that demonstrate the toxic effects in aquatic and marine life, or the contamination of wildlife. We don't really understand why the U.S. Food and Drug Administration has not banned the use of this chemical already, and we hope to formally petition them in the forthcoming year. There are over 100 scientific papers describing the toxicity of Oxybenzone/Octinoxate to humans and mammalian laboratory models! A recent study has provided strong evidence of an association between prenatal exposure of human fetuses and the occurrence of Hirschsprung's Disease – a congenital intestinal disease that strikes between 1:5,000 to 1:2,000 infants (Huo et al. (2016) The relationship between prenatal exposure to oxybenzone and Hirschsprung's disease. Chemosphere 144:1091-1097).

Lace coral, which is found nearshore in Hawaii, was exposed for 14 days under ~35% sunlight at a temperature of 80°F to 500 parts per trillion Oxybenzone. As you can see, the coral is bleaching.



Passage of a restriction on the sale of products containing Oxybenzone & Octinoxate can be a VERY effective means in mitigating oxybenzone pollution in both coastal and inland waters.

Haereticus Environmental Laboratory and I support this effort as being an effective means in reducing oxybenzone/octinoxate pollution, preserving and restoring Hawaii's coral reefs, and protecting the resource that so many local businesses depend upon.

Respectfully submitted,



Craig A. Downs, Ph.D.
Executive Director

Many companies and NGOs in Hawaii are concerned about Sunscreen Pollution, and the impacts of oxybenzone. See following page

CORAL REEFS ARE DYING

and those in the
waters of Hawai'i
are among the
most at risk

Sunscreen pollution,

especially the
chemical oxybenzone,
plays a role in that loss.

The toxicity of oxybenzone
can cause both coral bleaching
and coral death, as well as
induce reproductive diseases in fish.

Oxybenzone can play a destructive role
in preventing the natural restoration of a
damaged reef—ultimately leaving the seascape
barren and desolate. Sunscreen pollution's worst
impacts occur on reefs where locals and tourists
love to swim and experience the ocean.

To learn more about sunscreen
pollution and coral reefs,
and to see a short film, visit

ReefsAtRisk.org



To learn more about what
Hawai'i and its elected
representatives are doing, go to
Haereticus-lab.org
bereefsafe.com

PHOTO COURTESY OF SARAH LEE AT
WWW.SARAHLEE.PHOTO



AQUA-ASTON
HOSPITALITY



HAERETICUS
ENVIRONMENTAL LABORATORY

As a community of businesses, scientists, and non-profits, we are asking you to learn more about this issue, and like us, become part of the solution in rebuilding healthy coral reefs.

BUSINESSES:

808 Boards, Inc.
Hawaiian Paddle Sports
Hawaii Mermaid Adventures
Valley Isle Excursions
Maui Marketing
Maui Standup
Maui Surf Lessons LLC
Snorkel Depot
Waterworks Sports
Sunrise Surf Lessons Kauai
BeReefSafe.com
Rainbow Kayaks
Maui Kayak Adventures
Kai Kanani Sailing Charters
Tuga Sunwear
Pakaloha Bikinis
Snorkel Bob's
Hale Napili
Napili Shores Resort
Nalu Koa Maui
Napili Kai Resort
Napili Surf Resort
The Mauian
Maui Sunset
Ozone by Outrigger Resorts
Aqua-Aston Hospitality
Hawaii Fishing & Boating Assoc.
Aloha Surfing Ohana
Haleiwa Vacation Rental

SCIENTISTS:

Dr. Robert Richmond, University of Hawaii
Dr. Michael J Risk, McMaster University
Dr. Abbas Haghshenas, University of Tehran
Dr. Eugene Shinn, University of South Florida
Dr. Ariel Kushmaro, Ben Gurion University
Dr. Esti Winter-Kramarsky, Weizmann Institute
Dr. John Fauth, University of Central Florida
Dr. Silvia Diaz Cruz, Spanish Council for
Scientific Research
Dr. Omri Bronstein, Natural History Museum of
Vienna, Austria
Dr. Kim Sheehan, University of Oregon
Dr. Heather Hamlin, University of Maine
Dr. Craig A. Downs, Haereticus Environmental
Laboratory

COSMETIC COMPANIES:

Joe Dinardo, (ret) VP, Revlon-Almay
Raw Elements USA
All Good
Stream2Sea
Sea & Summit
Suntegrity Skincare
Mama Kuleana
Raw Love Sunscreens
TropicSport

NGOs:

Napili Bay and Beach
Foundation
Friends of Hanauma Bay
Hawaii Ocean Ambassadors
For the Fishes
Hawai'i Wildlife Fund
Sustainable Coastlines Hawaii
Maui Huliau Foundation
Malama O Puna
Pacific Whale Foundation
Humane Society of the US
Maui Nui Marine Resource
Council
Boxerwood Education Assoc.
Humane Society International
Save the Waves
Hawaii Ecotourism Association
Save Honolulu Coalition
KUPU
Colorado Ocean Coalition
Inland Ocean Coalition
Hawaii Association for Marine
Education & Research
Conservation Council for
Hawai'i
Coral Restoration Foundation
Hui O Ka Wai Ola
Hui O Ho'ohonua
Toxic Free NC
Hui o Ko'olaupoko
One Ocean Diving
The Kohala Center
Haereticus Environmental
Laboratory

Ua Mau ke Ea o ka 'Āina i ka Pono
(The Life of the Land is Perpetuated in Righteousness)



Institute of Geophysics
University of Tehran

No.

Date.

In The Name of God

Date: For the 2018 Hawaii Legislative Season

To: The State of Hawaii Legislature, its Committees and Chairpersons, and Governor Ige

Re: Restriction of the Sale of Oxybenzone & Octinoxate SPF products
DANGER of UV chemicals to climate change and its carbon footprint.

I am an environmental scientist and oceanographer at the Institute of Geophysics within the University of Tehran, Tehran, Iran. I am one of the foremost experts in my country that studies the impact of human activities on the marine environment.

To the point, I want to express my support for HB2264 and SB2571. These bills were written with the broad input of a number of independent scientists that strikes a wise and effective balance to diminish Oxybenzone/Octinoxate environmental pollution to coral reefs and other marine habitats, while NOT impacting tourism.

I am sure there will be a number of scientists worldwide who will provide scientific testimony to the toxicology and pollution of these two dangerous chemical that impacts all matter of marine life, but also the integrity of human health.

Carbon footprint - I would like to point out something that my other scientific colleagues may not. The CARBON FOOTPRINT of hydrocarbon-based sunscreens is considerable. If Hawaii DLNR is correct, that over 55 gallons of sunscreen pollutes the coast line of Maui per day, then we can calculate that the input of oxybenzone alone is contributing to 3,174lbs (1.44 metric tons) of CO₂ per year. If you include Octinoxate into the calculation, that is almost 3 metric tons of CO₂ per year. For Hanauma Bay, assuming that 4,515 pounds of oxybenzone pollutes the bay per year, that is equivalent to more than 5.5. metric tons of CO₂ per year. That is over 11 metric tons of CO₂ per year for oxybenzone/octinoxate.

Sunscreen pollution is not just the direct toxic impact it has to nearshore and mesophotic reef habitats, and migrating cetaceans. The use of these chemicals in Hawaii has a direct contribution of the CO₂ load to atmospheric and oceanic condition. The State of Hawaii government has made a promise to recognize and mitigate the overall size of their carbon footprint. Sunscreen pollution and its impact to climate change is an issue that Hawaii can show leadership and responsibility.

Your efforts in legislative conservation have been noted around the world, and we applaud your effort and leadership.

Respectfully submitted,

S. Abbas Haghshenas, PhD
Assistant Professor in Physical Oceanography
Institute of Geophysics -University of Tehran
Tehran, Iran
Tel: +98 21 6111 8318
Email: sahaghshenas@ut.ac.ir



SPANISH MINISTRY
OF ECONOMY AND
COMPETITIVENESS



Institute of Environmental Assessment
and Water Research (IDAEA)

SPANISH NATIONAL RESEARCH COUNCIL (CSIC)

From: Silvia Díaz-Cruz, Ph.D.
Spanish National Research Council (CSIC)
Institute of Environmental Assessment and Water Research (IDAEA)
Barcelona, Spain

Barcelona, 2nd February 2018

TO WHOM IT MAY CONCERN

Hereby I, Dr. Silvia Diaz Cruz, from the Spanish National Research Council CSIC, (Spain) want to support the prohibition of the use or application of products containing

Oxybenzone, 2-Hydroxy-4-methoxyphenyl)-phenylmethanone under the International Union of Pure and Applied Chemistry (IUPAC) chemical nomenclature registry, has a chemical abstract service registry number 131-57-7, and whose synonyms include benzophenone-3, Escalol 567, Eusolex 4360, KAHSCREEN BZ-3, 4-methoxy-2-hydroxybenzophenone, and Milestab 9,

and/or

Octinoxate (RS)-2-Ethylhexyl (2E)-3-(4-methoxyphenyl)prop-2-enoate under the IUPAC nomenclature registry, has a chemical abstract service registry number 5466-77-3, and whose synonyms include ethylhexyl methoxycinnamate, octyl methoxycinnamate, Eusolex 2292, and Uvinul MC80,

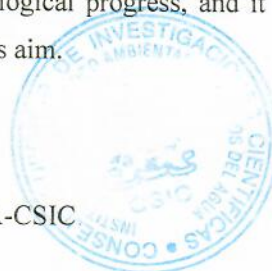
in areas close to marine ecosystems to help marine life preservation. So far there are many evidences supported by reliable scientific studies published in prestigious scientific journals, showing the risk this sunscreen agent pose for marine environments, and especially relevant for coral reefs ecosystems.

Based on my own scientific research experience of more than a decade studying the impact of UV filters and blockers in the environment, I support **SB2985** and **HB2264**.

My institution, the CSIC, is the largest public institution dedicated to research in Spain and the third largest in Europe. Belonging to the Spanish Ministry of Economy and Competitiveness through the Secretary of State for Research, Development and Innovation, its main objective is to develop and promote research that will help bring about scientific and technological progress, and it is prepared to collaborate with Spanish and foreign entities in order to achieve this aim.

Silvia Díaz-Cruz, PhD

Researcher at the Department of Environmental Chemistry. IDAEA-CSIC
E-mail address: sdcqam@cid.csic.es



id²æa

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08034 Barcelona, Spain
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School of Geography
and Earth Sciences

1280 Main Street West
Hamilton, Ontario, Canada
L8S 4K1

To: Interested parties.

From: Dr. Michael J Risk
Durham, Ontario Canada

Date: Feb. 2, 2018

Re: Oxybenzone

I am a coral reef ecologist, with many decades of experience with coral reefs of the Pacific. To date, my work has been cited more than 8000 times in the scientific literature. I have been to Hawaii several times, usually as a guest of your federal government. I have been greatly impressed by the beauty of the coral reefs in the state. It seems to me to be sensible to preserve what you have.

I try to keep up with recent science, and to those of us who know the literature is no secret that oxybenzone is a coral killer. The damaging effect on coral larvae can be seen at unbelievable low concentrations. Not only that: oxybenzone is incorporated into the food chain.

The use of this compound in sunscreen can no longer be defended. There are many companies producing more reef-friendly products at competitive prices.

The news of your struggle in Hawaii has spread around the globe. Coral reefs are in terrible shape now, under many threats. Removing this one would be easy to do, and would send a message to the rest of the world that Hawaii cares.

A handwritten signature in black ink, appearing to read "M. Risk".

Dr. Michael J. Risk
MJRiskEnvironmental Ltd.
PO Box 1195, Durham ON
Canada



Feb 2 2018

Dear Honorable Members of the Hawaiian Legislature;

As a co-author of a number of studies regarding the effects of oxybenzone and their derivatives on corals and sea urchins I strongly suggest banning these chemicals from use from use in products that may enter the marine environment. Our studies have shown that without a shadow of a doubt these chemicals even at very low concentrations (parts per thousand and parts per million) have deleterious effects on larvae and adult form of these organisms. These studies were carried out in the US, in the Caribbean and in the Red Sea, and all revealed their deleterious effect on marine organisms causing numerous types of cellular damage. In addition, these chemicals were also found to affect human health as they penetrate the skin and can be found in human milk and urine of those who use these products (references are available upon demand). I urge you to take into consideration all these studies when making your decisions regarding this important issue. I personally have been using alternative sunscreens, as well as hats and long sleeved sun (or rash)-guards, there are good alternatives out there.

Sincerely


DR. Esther Kramarsky-Winter

Dr E. Kramarsky-Winter
Dept. of Biotechnology Engineering
Ben Gurion University, Beer Sheva Israel
EKW Research Development Rehovot, Israel
esti.winter@gmail.com
972-544881227

SB-2571

Submitted on: 2/5/2018 11:06:55 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

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

Comments:

As the Executive Director of Sustainable Coastlines Hawaii, we support SB 2571. Seeing the detriments of our apathetic behaviors towards our oceans is apparent every time we visit our coastlines. More needs to be done to preserve our oceans and with Hawaii being surrounded by it, it is imperative that our leaders lead and protect our coastlines, reefs, and oceans from the toxic burden most current sunscreens and lotions are unloading upon them.



1050 Bishop St. PMB 235 | Honolulu, HI 96813
P: 808-533-1292 | e: info@hawaiiifood.com

Executive Officers

Beau Oshiro, C&S Wholesale Grocers, *Chair*
John Erickson, Meadow Gold Dairies, *Immediate Past Chair*
Toby Taniguchi, KTA Superstores, *Vice Chair*
Lauren Zirbel, HFIA, *Executive Director*
Joe Carter, Coca-Cola Bottling of Hawaii, *Secretary / Treasurer*
Stan Brown, Acosta Sales & Marketing, *Advisor*
Paul Kosasa, ABC Stores, *Advisor*
John Shilf, Rainbow Sales & Marketing, *Advisor*
Barry Taniguchi, KTA Superstores, *Advisor*
Derek Kurisu, KTA Superstores, *Advisor*

TO:
COMMITTEE ON WATER AND LAND &
COMMITTEE ON AGRICULTURE AND ENVIRONMENT

FROM: HAWAII FOOD INDUSTRY ASSOCIATION
Lauren Zirbel, Executive Director

DATE: Wednesday, February 7, 2018
TIME: 1:20 p.m.
PLACE: Conference Room 224

RE: SB 2571 RELATING TO WATER POLLUTION

Position: OPPOSITION

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.

We care about offering products individuals feel comfortable using on a daily basis to prevent skin cancer. This bill impacts federally approved and regulated healthcare products. If there is an abundance of peer-reviewed science to make a conclusion on this issue, then the federal government agencies tasked with making these sorts of determinations would be the best entities to make that determination. Thank you for the opportunity to testify.



February 6, 2018

To: The Honorable Karl Rhoads, Chair
Senate Committee on Water and Land

The Honorable Mike Gabbard, Chair
Senate Committee on Agriculture and Environment

From: Tim Shestek
American Chemistry Council

Re: **SB 2571 – OPPOSE**

On behalf of the American Chemistry Council (ACC), I am writing to express our opposition to SB 2571, 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.



February 6, 2018

The Honorable Mike Gabbard
Chairman, Committee on Agriculture and Environment
Hawaii State Capitol, Room 224
415 South Beretania Street
Honolulu, HI 96813

RE: Opposition to SB 2571 – relating to water pollution

Dear Chairman Gabbard:

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 under consideration by the Senate Committee on Agriculture and Environment (AEN) on Wednesday, February 7th. The legislation seeks to regulate the Food and Drug Administration (FDA) approved ingredients of oxybenzone and/or octinoxate 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
February 6, 2018 - Page 2 of 2

For this reason, we ask that the Senate AEN Committee withdraw the proposal to ban oxybenzone and octinoxate. 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,



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

Cc: Members, Committee on Agriculture and Environment



February 6, 2018

The Honorable Karl Rhoads
Chairman, Committee on Water and Land
The Honorable Mike Gabbard
Chairman, Committee on Agriculture and Environment
State Capitol, Room 224
415 South Beretania Street
Honolulu, HI 96813

RE: Opposition to SB 2571

Chairs Rhoads and Gabbard:

On behalf of the Personal Care Products Council (the Council), I am writing to express opposition to Senate Bill 2571, which prohibits the sale, offer for sale, or distribution of nonprescription SPF sunscreen products containing oxybenzone or octinoxate effective January 1, 2019.

The Council is the leading national trade association representing the cosmetic and personal care products industry. The Council's approximately 600 member companies manufacture and distribute the vast majority of products marketed in the U.S. As the makers of a diverse range of products that consumers rely on daily, from sunscreen, shampoo, and toothpaste to antiperspirant, moisturizer and lipstick, personal care products companies are global leaders committed to safety, quality and innovation.

Coral reef degradation is an important environmental issue that we all take seriously. However, House Bill 2264 does not address the main causes of coral bleaching, which NOAA (National Oceanic and Atmospheric Administration) states as being pollution, climate change and overfishing. In fact, a recent publication in the scientific journal *Nature* implicates climate change as the main cause of coral bleaching. The authors also point out that coral reefs continue to be impacted even when human activities are prohibited in areas near coral habitats, indicating that climate change alone can drive reef degradation. Additionally, in January 2017, scientists from the University of Hawaii published a study showing that climate change has resulted in coral bleaching and subsequent reef decline in Hawaiian coastal waters. Professor Terry Hughes, Director of the Australian Research Council Centre of Excellence for Coral Reef Studies at James Cook University, reaffirmed these conclusions in a January 2018 article in *The New York Times*, stating that "coral bleaching is caused

by global warming full stop.” In a separate article published by *Mashable* in 2015, Professor Hughes suggested that extrapolations asserting sunscreen is damaging the world’s coral “are a bit of a stretch’, and “the conclusion from the media is sunscreen is killing the world’s coral, and that’s laughable.”

A single study (published by Downs et al. in 2015) linking sunscreens to coral bleaching has been used as a justification for House Bill 2264. However, it is not common practice to base regulation or legislation on a single ecotoxicological study. More commonly, these decisions are based on a body of evidence that leads the scientific community to draw solid conclusions and form a scientific consensus. As things stand, the Council has a number of concerns over the experimental design and conclusions that were drawn based on the data presented in this study. In particular, the conclusions were based on the results of tests conducted on coral species that are not native to Hawaii. It is also questionable whether results of *in vitro* cell line assays can be used as a proxy for coral bleaching. Other questionable experimental aspects include the use of a non-validated test system, inappropriate use of carrier solvents, lack of chemical analysis throughout the experiment and questions over how EC₅₀ values were derived. In addition, the high levels of oxybenzone detected by Downs et al. compared to those that have been detected by several other studies raise questions over the validity of these data. Overall, the available data do not support the conclusion that oxybenzone and other sunscreens pose an unacceptable environmental risk.

While the coral bleaching events are of great importance, of similar great concern is the prevalence of skin cancer diagnoses and deaths. Skin cancer is the most common cancer in the U.S. In fact, more than 10,000 people die of melanoma every year and there are more new cases of skin cancer each year than breast, prostate, lung and colon cancers combined. The U.S. Food and Drug Administration (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 greatly increases the risk of developing skin cancer later in life. In Hawaii alone, 2-out-of-3 adults report using sunscreens, and 4-out-of-5 parents report using sunscreen on their children. The risk of skin cancer without sunscreen is proven, and a ban on sunscreen would create a serious public health problem.

Oxybenzone is an FDA approved critical ingredient to the U.S. sunscreen market. It is a broad spectrum sunscreen, absorbing both UVA and UVB rays, that also photostabilizes other sunscreens to provide long lasting protection. The cost of oxybenzone containing sunscreens is substantially less than other alternative ingredients. Consumer costs for effective sunscreen products that have the same or similar high SPF levels will increase significantly with no measurable environmental impact. Similarly, octinoxate is a safe and effective ingredient approved by the FDA for use in sunscreens.

Senate Bill 2571, although well intended, lacks the necessary scientific evidence to demonstrate that these two sunscreen ingredients are responsible for Hawaii’s coral bleaching. Moreover, skin cancer

is the most commonly diagnosed cancer in the United States. We fear this legislation will create confusion, put consumers' health at risk and potentially discourage the use of sunscreens – an important part of a safe sun regimen. Sunscreens containing oxybenzone or octinoxate are affordable daily use products that have excellent skin cancer prevention properties that cannot be easily attained using alternative ingredients.

Since this legislation is based on one, selectively chosen, laboratory experiment, it would seem appropriate to support further research, and not rush to judgment.

Please oppose Senate Bill 2571.

Thank you for your consideration.

Sincerely,

Iain Davies, Ph.D.
Senior Environmental Scientist
Personal Care Products Council



TO: Honorable Chair Rhoads, Vice-Chair Gabbard, and Water and Land Committee Members, Honorable Chair Gabbard, Vice-Chair Riviere and Agriculture and Environment Committee members, 2-7-18, 1:30 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., Senior Director, Wildlife Department, Humane Society International, ttelecky@hsi.org, Tel: 301.258.1430

RE: SUPPORT for SB 2571, Relating to Water Pollution

The Humane Society of the United States (HSUS) and Humane Society International (HSI), support SB 2571 (with an amendment) which would, if enacted, 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. We thank the Committees 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 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.

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

Thank you for this opportunity to provide testimony.



AMERICANS FOR DEMOCRATIC ACTION

OFFICERS	DIRECTORS			MAILING ADDRESS
John Bickel, President	Guy Archer	Jan Lubin	Cameron Sato	P.O. Box 23404
Alan Burdick, Vice President	Juliet Begley	Jenny Nomura	George Simson	Honolulu
Marsha Schweitzer, Treasurer	Gloria Borland	Stephen O'Harrow		Hawai'i 96823
Karin Gill, Secretary	Chuck Huxel	Doug Pyle		

February 5, 2018

TO: Honorable Chairs Rhoads & Gabbard and Members of WTL & AEN Committees

RE: SB 2571 RELATING TO WATER POLLUTION

Support for hearing on Feb. 7

Americans for Democratic Action is an organization founded in the 1950s by leading supporters of the New Deal and led by Patsy Mink in the 1970s. We are devoted to the promotion of progressive public policies.

We support SB 2571 as it would ban non-prescription use of oxybenzone. Oxybenzone is killing our reef. This bill is in the right direction for title of the bill: preserving coral. Other sun screen products are available.

Thank you for your favorable consideration.

Sincerely,

John Bickel
President

SB-2571

Submitted on: 2/3/2018 9:20:00 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Lisa Bishop	Friends of Hanauma Bay	Support	Yes

Comments:

Aloha and mahalo for the opportunity to testify in SUPPORT of SB2571. There is incontrovertible peer-reviewed scientific proof that oxybenzone and octinoxate in sunscreen pose a real threat to the health of our coral reef and to human health. Further, there are many readily available sunscreen products that do not contain these two chemicals. Banning the sale of over the counter sunscreen products in Hawaii that contain oxybenzone and/or octinoxate will immediately and permanently mitigate sunscreen pollution at our beaches and near-shore marine environments, and has great support from NGO's, residents, and businesses that rely on our fragile marine environment for their livelihood. Further, this bill does not require any State appropriation. Please pass SB2571. Mahalo,

Lisa Bishop

Friends of Hanauma Bay

NAPILI

Bay and Beach Foundation

*PO Box 10823
Lahaina, HI 96761*

February 4, 2018

Honorable Members of Hawaii State Senate:

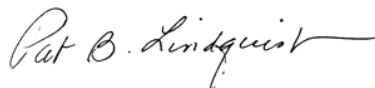
We are quite aware of the growing body of scientific knowledge regarding deleterious effects of Oxybenzone and Octinoxate on a variety of reef life.

We are concerned about the continuing losses in coral reef coverage and resilience in face of global warming trends, and diminished reef building activity in the State of Hawaii. Oxybenzone and Octinoxate damage to marine life includes changes in fish behavior, pathological changes to fish sexual identity, damage to genomic and DNA integrity, and loss of motility and viability in juvenile corals that are essential for building new reefs.

Passage of a ban on the sale of products containing Oxybenzone or Octinoxate (unless it is a medical prescription by a medically licensed physician) can be a very effective means of mitigating these pollutants in Hawaiian waters.

Napili Bay and Beach Foundation, Inc. and I support SB 2571 as an effective means to reduce water pollution by personal care products containing Oxybenzone and/or Octinoxate, without any cost to State budgets, thus helping protect the State's valuable coral reefs.

Respectfully submitted,



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

We are a non-profit organization formed to protect and improve the health of Napili beach and bay, tax ID # 20 5394259

Pat B. Lindquist, President
Scott Ullrich, Director

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

Nane Aluli, Secretary
Dana Reed, Director

SB-2571

Submitted on: 2/4/2018 1:41:46 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Lehn Huff	Maui School Garden Network	Support	No

Comments:

SB-2571

Submitted on: 2/4/2018 3:36:08 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Rick Gaffney	Pacific Boats & Yachts LLC	Support	No

Comments:

This bill, and others like it being considered in this session of the legislature, are essential to the protection of our coral reefs. An increasing body of peer-reviewed scientific literature shows conclusively that oxybenzone and octinoxate have a severely detrimental impact on corals, other marine organisms, and to human beings.

We can't stop global warming and its impacts on our essential reefs, but we can stop poisoning our reefs by preventing the use of products containing chemicals that are detrimental to healthy coral, limu and other reef organisms.

Please vote to move this bill forward in today's hearing. It is essential to the well being of our coral reefs and the people of Hawaii.



TO: Honorable Chairs Gabbard and Rhoads, Energy and Environmental, Agriculture and Water and Land Committee Members, 2-7-18, 120pm

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

RE: SUPPORT for SB2571, 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. *Unlike its companion bill, HB2264, the penalties are lower in SB2571, thus the committee may want to consider amending.*

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.



TO: Honorable Chairs Gabbard and Rhoads, Energy and Environmental, Agriculture and Water and Land Committee Members, 2-7-18, 120pm

SUBMITTED BY: Inga Gibson, Policy Consultant, West Hawaii Humane Society
ponoadvocacy@gmail.com, 808.922.9910

RE: SUPPORT for SB2571, Relating to Water Pollution

West Hawaii Humane Society 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. Unlike its companion bill, HB2264, the penalties are lower in SB2571, thus the committee may want to consider amending.

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).

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.

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.



We support SB2571, to ban sunscreens containing oxybenzone &/or octinoxate. The science is well established, with well over 100 scientific papers and reports on the dangers of these ingredients to people, corals, marine life. That we are now finding these chemicals in our local fish is unfortunate, and could have a negative impact on people who consume them and well as related businesses that supply fish to the public. There's no reason to risk the health of people, our 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. 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, Kuleana Sun Protection, Little Hands Hawaii, Manda Naturals, Mama Kuleana, Raw Elements, Raw Love, Sea & Summit, 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, activity booths, coffee shops, boutiques, farmer's markets and more! Even tour companies and large hotel chains are starting to offer safer natural sunscreens to their guests.

At this point there's really no excuse. It's time we get these chemicals out of the water and give our corals a chance at restoration. Mahalo.

Wil McClaren

Ban Toxic Sunscreens

bantoxicsunscreens.com

From: [Kiki Pu Chung](#)
To: [AEN Testimony](#)
Subject: Testimony SB2571
Date: Sunday, February 4, 2018 8:40:14 PM

We have a company helping to supply consumers with Reef safe products. We want to ban all toxic sunscreens from our oceans. As an avid waterman, I want all chemical pollutants out of our oceans. Not to mention what it does to our skin. Please help us to ban this chemical.

Sunscreens containing the chemicals oxybenzone and octinoxate damage the precious coral reefs on which Hawaii's shoreline, beaches, recreation and tourist economy all depend. These two chemicals also appear to disrupt our hormones and contribute to higher risks for breast and prostate cancer and endometriosis, among other diseases. Sunscreens that don't contain these harmful chemicals are already available on the market. Please vote in favor of bill SB2571. Thank you.

Aloha,

Timothy Clark

SB-2571

Submitted on: 2/2/2018 3:06:35 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
lindsey whitcomb		Support	No

Comments:

SB-2571

Submitted on: 2/2/2018 4:53:59 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Elizabeth Bishop		Support	Yes

Comments:

Aloha Senators, damaging pollution from oxybenzone and octinoxate is a huge problem in Hawaii and it is something we can easily mitigate. There are also many affordable, effective and alternative sunscreens that do not contain these two chemicals. SB2571 is a reasonable and measured path to quickly mitigating sunscreen pollution at no cost to the state. Please SUPPORT SB2571. Thank you for the opportunity to testify in this matter.

E Bishop

Honolulu, HI

SB-2571

Submitted on: 2/2/2018 7:31:04 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
DONNIE BECKER		Support	No

Comments:

SB-2571

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

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Joe DiNardo	none	Support	No

Comments:

I support this bill 100% and thank the Representatives for recognizing that Oxybenzone and Octinoxate are toxic to both the environment and to human life. The faster these chemicals can be banned, the faster they will decline in Hawaiian Waters. Mahalo, Joe DiNardo - Hawaiian Tourist/Toxicologist.

SB-2571

Submitted on: 2/3/2018 8:47:07 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Debra Koonohiokala Norenberg		Support	No

Comments:

SB-2571

Submitted on: 2/3/2018 9:51:52 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Richard Reed		Support	No

Comments:

While there may be some argument about how much damage oxybensone or octinoxate cause since there is evidence of their damage to our marine ecosystem, and there are many other products free of these chemicals, there is no reason to not use the precautionary principle and ban them. Please!

R Reed

Hakalau

SB-2571

Submitted on: 2/3/2018 10:04:35 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kat Culina		Support	No

Comments:

SB-2571

Submitted on: 2/4/2018 10:05:51 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Tina Wildberger	Supporters for Tina Wildberger	Support	No

Comments:

Aloha,

I write in support of this bill to prohibit damaging endocrine disrupting chemical sunscreens from sale state wide. These reef killers do not prevent skin cancer and provide no economic benefit to our tourism economy. Please accept my testimony in support of this bill.

Mahalo.

SB-2571

Submitted on: 2/4/2018 12:43:54 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

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

Comments:

I am horrified to find out that we, the people of Hawaii and everywhere, have been diligent lathering ourselves up in toxic chemicals because we didn't know they were toxic. Oxybenzone and Octinoxate should be banned from use in these islands. The corals and the reef that provide Hawaii with its major industry, tourism, are also being poisoned. So, we poison the corals and poison the tourists and poison ourselves. Play golf? Then you're poisoned. Triathlete? Then you are poisoning yourself and the ocean.

You can say, "Who knew?" but now we do know, and don't let the chemicals industry get away with this any more. I STRONGLY SUPPORT HB2264.

SB-2571

Submitted on: 2/4/2018 12:57:57 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Lauray Walsh		Support	No

Comments:

Save our reefs... thank you.

SB-2571

Submitted on: 2/4/2018 2:42:52 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Cynthia Urry		Support	No

Comments:

I support this bill due to the fact the reefs are being damaged by these sunscreens. The cruise ships are coming into Kona so many more days and the buses are dropping off so many tourists (besides the increase of tourism in general) that have no clue on how delicate the reef systems are to Hawaii. They come to the beach, slather up with these dangerous sunscreens and go immediately in the ocean, leaving an oily film on the water. I am sure if they knew what they were doing to the reef, they would not use them. We need to do something now!

SB-2571

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

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Lisa Bunge		Support	No

Comments:

Our reefs and our personal health can use all the help it can get

SB-2571

Submitted on: 2/4/2018 6:08:40 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Morgan Bonnet		Support	No

Comments:

Dear Committee members,

My name is Morgan Bonnet. I have been surfing and windsurfing for many years but only recently did I become aware of the danger of using certain sunscreens, to my health and to the endangered reef.

At this point, there is sufficient scientific evidence to show that the chemicals oxybenzone and octinoxate contribute to damaging the reef. I highly recommend watching the documentary "Chasing Coral" which tells the story of scientists following coral bleaching events around the world, including Kaneohe Bay. I felt pretty depressed after watching it, even if the ending was trying to be positive and highlighted the fact that although we are getting close to a point of no return, there is still a chance to reverse the phenomena if we act fast. And this doesn't convince people that don't really care about the environment, they can look at the economic aspect of it. I don't think tourists will come rushing to Hawai'i if most of the reef is undergoing bleaching events, or worse, going past the point of possible recovery.

On top of that, there is also growing scientific evidence that these two chemicals also appear to disrupt our hormones and contribute to higher risks for breast and prostate cancer and endometriosis, among other diseases. As a consumer, I spent some time to educate myself and I found that the best resource is provided by the Environmental Working Group (<https://www.ewg.org/sunscreen/>) which reviewed and tested a long list of sunscreens. While I was glad that I found this resource and managed to find the best waterproof sunscreen which I could also buy locally, I was shocked to find out that many mainstream brands that I used in the past scored so low. The EWG website is also a great resource to look up studies and scientific publications on the subject. Here is an excerpt from the site:

"EWG has reviewed the existing data about human exposure and toxicity for the nine most commonly used sunscreen chemicals. The most worrisome is oxybenzone, added to nearly 65 percent of the non-mineral sunscreens in EWG's 2017 sunscreen database. Oxybenzone can cause allergic skin reactions (Rodriguez 2006). In

laboratory studies it is a weak estrogen and has potent anti-androgenic effects (Krause 2012)

The Centers for Disease Control and Prevention has detected oxybenzone in more than 96 percent of the American population, based on a representative sampling of children and adults (Calafat 2008). Participants who reported using sunscreen have higher oxybenzone exposures (Zamoiski 2015). Investigators at University of California, Berkeley, recently reported a dramatic drop in teen girls' exposure to oxybenzone in cosmetics when they switched from their usual products to replacements that did not contain this chemical (Harley 2016)

In a recent evaluation of CDC-collected exposure data for American children, researchers found that adolescent boys with higher oxybenzone measurements had significantly lower total testosterone levels (Scinicariello 2016). The study did not find a similar effect in younger boys or females. The researchers cautioned that their results are a single day snapshot instead of a controlled study of the effect of multi-day exposures.

Intentional dosing studies in people are rare. In one study, human volunteers applied a lotion with oxybenzone and two other sunscreen ingredients. Researchers reported a minor but statistically significant decrease in testosterone in men, accompanied by a minor increase in inhibin B, another male sex hormone (Janjua 2004). The researchers concluded these differences were normal variations and not attributed to sunscreen exposure, but critics argue that the exposures were too short to be conclusive (Krause 2012).

Given the pervasiveness of oxybenzone exposures, further study is needed to evaluate the association between oxybenzone and hormone disruption in children and adults.

EWG recommends that consumers avoid sunscreens with oxybenzone. But sunscreen users are exposed to other active ingredients as well. Margaret Schlumpf of the University of Zurich detected oxybenzone and four other sunscreen filters in Swiss women's breast milk, indicating that the developing fetus and newborns may be exposed to these substances (Schlumpf 2008, Schlumpf 2010). She detected at least one sunscreen chemical in 85 percent of milk samples.

Some experts caution that the unintentional exposure to and toxicity of active ingredients erode the benefits of sunscreens (Krause 2012, Schlumpf 2010). But most experts conclude that more sensitive tests are needed to determine whether sunscreen chemical ingredients pose risks to frequent users (Draeos 2010, Gilbert 2013)."

Sunscreens that don't contain these harmful chemicals are readily available on the market across the Hawai'i islands. Please vote in favor of SB2571. Thank you.

SB-2571

Submitted on: 2/4/2018 7:08:12 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Barbara Wiedner		Support	No

Comments:

Sunscreens containing the chemicals oxybenzone and octinoxate damage the precious coral reefs on which Hawaii's shoreline, beaches, recreation and tourist economy all depend. These two chemicals also appear to disrupt our hormones and contribute to higher risks for breast and prostate cancer and endometriosis, among other diseases. Sunscreens that don't contain these harmful chemicals are already available on the market. Please vote in favor of bill _____SB2571____. Thank you.

Mahalo Nui Loa

Barbara Wiedner

1774 Puu Kaa St, Kapaa, HI 96746

SB-2571

Submitted on: 2/4/2018 7:35:22 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

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

Comments:

Aloha kakou

I am in support of SB2571. Studies show that oxybenzone and octinoxate severely harm corals and other reef fish. Studies from around the globe indicate that oxybenzone and octinoxate appear to harm corals. These ingredients have shown to cause deformities in coral larvae that ultimately kill them.

Please help us protect our coral reefs in Hawaii by banning these ingredients in sunscreen products.

Mahalo

Cynthia Punihaole Kennedy

SB-2571

Submitted on: 2/4/2018 7:37:37 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Tamara Paltin		Support	No

Comments:

Aloha Senators,

The science on this is very clear oxybenzone and octinoxate are harmful to our reefs and they are not good for human usage either. There are cost effective alternatives. Please ban these harmful products, other countries have successfully done this for the good of their ocean environment. Here in Hawaii our ocean is the biggest driver of our economy and so we must do all that we can to protect it. Please send the message loud and clear to these product manufacturers we want to buy their products without these harmful substances inside.

Mahalo,

Tamara Paltin

870-0052

SB-2571

Submitted on: 2/4/2018 7:58:32 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Janet Goodmanson		Support	No

Comments:

SB-2571

Submitted on: 2/4/2018 8:13:20 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Jade Moss		Support	No

Comments:

Aloha,

I strongly support the ban on reef-harming chemicals as listed on this bill. The DLNR released a report in 2016 stating that these are directly causing harm to Hawaii's reefs, a blog can be read here <http://dlnr.hawaii.gov/blog/2016/09/03/nr16-182/>

I don't believe that "urging" ocean users to use reef-safe sunscreen is enough. Many visitors have no idea that its unsafe, and furthermore has been linked to skin cancer.

Myself and my family do not use sunscreen containing these chemicals. They are not necessary for sun protection.

Thank you for receiving this testimony and consideration for support.

Jade Moss

Kalaheo

SB-2571

Submitted on: 2/4/2018 9:10:20 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Cynthia Nazara	Kona Hawaiian Civic	Support	No

Comments:

I am in support of the ban of sale of non-prescription sunscreen.

SB-2571

Submitted on: 2/4/2018 9:25:34 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
kimberly burger		Support	No

Comments:

Ban the sale of oxybenzone or octinoxate, or both to save our environment and coral reefs from being destroyed any further by these chemicals found in sunscreens and other skin care and make up products.

Respectfully,

Kimberly Burger

SB-2571

Submitted on: 2/4/2018 11:06:00 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Marion McHenry		Support	No

Comments:

I strongly support this bill.

SB-2571

Submitted on: 2/5/2018 2:07:42 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
melody hill		Support	No

Comments:

Please support passage of bill banning sunscreen products containing two ingredients shown to be detrimental to our marine environment.

Melody Hill

SB-2571

Submitted on: 2/5/2018 6:26:58 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Anthony Orozco		Oppose	No

Comments:

SB-2571

Submitted on: 2/5/2018 7:38:34 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Bellodgia Yamamoto	resident of North Shore	Support	No

Comments:

Dear Honorable politicians,

Please receive my testimony in support of SB2571. We must act quickly to protect our marine life from the harsh chemicals routinely found in sunscreens as detailed in SB2571 that are literally destroying our precious coral reefs and other vital marine life. We depend on the health of coral reefs and other marine life for our very survival on these islands not to mention the death of the tourist industry which would also result from the death of our ocean life and its beauty. We can longer knowingly participate in activities that will ultimately lead to our extinction we must act now to protect our oceans from unnecessary water pollutants. We can't allow these hazardous sunscreen products that contain the chemicals that are set forth in sb257 to be available for retail consumption anymore in the state of Hawaii.

This is us a very serious matter that needs immediate attention. If you go to any well frequented north shore beach in Oahu for example you can literally see the chemical residue from toxic sunscreens floating on the surface of the water.

Sincerely,

Bellodgia Yamamoto

north shore resident and human being who doesn't want to sit back and watch the death of our oceans!!!

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SB-2571

Submitted on: 2/5/2018 8:24:11 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Lilian Iverson	350corvallis	Support	No

Comments:

The use of Oxybenzone and octinoxate containing sunscreens are detrimental to not only coral reefs and the marine environments, but also to the people who use them. With many sunscreens containing carcinogens, hormone disruptors, nano-particles, allergens, harsh preservatives and skin irritants, we are polluting both our bodies and the environments with a toxicity that can be detected with just one little drop.

1 DROP OXYBENZONE CONTAMINATES 4.3 MILLION GALLONS OCEAN WATER

And it is more than just that. Oxybenzone is also a known endocrine disruptor, can reduce sperm count in men and may contribute to endometriosis in women. What is even worse is that over 1,400 sunscreens were tested by the EWG and while only 5% were considered safe to use, 40% were actually listed as potentially cancer-causing. Octinoxate is another chemical that is known for its capacity to disrupt hormones in animals and very likely humans as well. Besides that, it is also very unstable and actually changes into a less UV-absorbent form when exposed to sunlight. Just as scary, there have been studies that show that octinoxate actually increases exposure to skin-damaging free radicals even after UV exposure has ended.

With an estimated 200 gallons of sunscreen dumped per day in just the Hawaiian islands alone, this bill can help hone in on an astounding statistic and hopefully start a catalyst for eliminating these two ingredients from clogging our precious oceans. By insisting to phase out these two ingredients, we can bring these important issues to the forefronts of our minds and build an aware community where health in society and the environment comes first.

<https://bantoxicsunscreens.com/>

<https://www.annmariegianni.com/chemicals-in-sunscreen>

<https://www.annmariegianni.com/ingredient-watch-list-octinoxate-the-potentially-dangerous-chemical-sunscreen/>

SB-2571

Submitted on: 2/5/2018 8:47:11 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Judith Perino		Support	No

Comments:

From: [Rhoads1 - Talya](#)
To: [WTL Testimony](#)
Subject: FW: ban toxic sunscreens
Date: Monday, February 5, 2018 4:49:14 PM

-----Original Message-----

From: AEN Testimony
Sent: Monday, February 5, 2018 4:48 PM
To: Rhoads1 - Talya <rhoads1@capitol.hawaii.gov>
Subject: FW: ban toxic sunscreens

Aloha,

Please see testimony below for SB 2571.

Mahalo,
Adriene

-----Original Message-----

From: Paul Montague [<mailto:montinmaine@yahoo.com>]
Sent: Monday, February 5, 2018 4:23 PM
To: waltestimony <waltestimony@capitol.hawaii.gov>; AEN Testimony <AENTestimony@capitol.hawaii.gov>
Subject: ban toxic sunscreens

I support the bill SB2571 to ban Oxybenzone and other chemical sunscreens in an effort to protect our coral reefs and public health.

Sincerely,

Paul Montague
PO Box 6534
Ocean View, HI 96737
808-929-7208

SB-2571

Submitted on: 2/5/2018 4:53:39 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
laura Ramirez		Support	No

Comments:

Please protect the reefs from the damage caused by unnecessary and dangerous chemicals in sunscreen and save our oceans!

Vote in favor of SB2571 Mahalo

SB-2571

Submitted on: 2/5/2018 7:08:20 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

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

Comments:

SB-2571

Submitted on: 2/5/2018 7:41:10 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Hattie Gerrish		Support	No

Comments:

I support any proposal to ban these harmful substances, however I consider this bill superior to the House version, HB2723, because it would take four more years to take effect. Reef health is important, so why put off the ban for so long.

SB-2571

Submitted on: 2/5/2018 7:58:12 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Bob Smith		Support	No

Comments:

This measure will help support our reefs, our fishery, and our visitor economy. Please pass this measure.

SB-2571

Submitted on: 2/5/2018 8:48:26 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
ME Smith		Support	No

Comments:

This bill will help protect our reefs, fisheries and the visitor industry. These 2 ingredients should be banned from use in our Hawaiian waters. Please listen to your constituents instead of the sunscreen lobbyists who are only interested in their bottom lines.

SB-2571

Submitted on: 2/5/2018 10:39:41 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Cherie Griffore	Malama Kona, Surfrider Foundation	Support	No

Comments:

I support this bill to ban the sale of oxybenzone sunscreen

I have been coming to Hawaii for the last 25 years, on holiday and to go scuba diving. I purchase my residence in the Kailua Kona Area in 2010, was a part time resident from 2013-2017 and became a full time resident in 2017.

I try to scuba dive once or twice a week. I have over 500 dives in the waters of Hawaii. Over the years I have personally witnessed a significant decline in the health of Hawaii's beautiful coral reefs. From listening to various experts on the subject there seems to be convincing evidence that some of the ingredients in many of the commercially marketed sunscreens have chemicals that are toxic to the coral, or inhibit its reproductive abilities. I know many people will say the ocean is huge and how can a little sunscreen hurt it. I agree the ocean is huge but damage to the coral reefs has been documented, and these conclusions are supported by NOAA.

Mexico has been prohibiting sunscreen in their ocean and lagoons for over 20 years. I would like to think that we should be able to match their standard in protecting our coral reefs. Much of Hawaii's economy is based on tourism and much of our tourism is based on tourists coming to enjoy our beautiful ocean. The coral reefs are so important to the islands, they protect our shores and sustain a tremendous amount of life in the ocean. Without them most of what makes Hawaii so special is at risk.

I **support SB2571**, and urge everyone who cares about Hawaii to support it.

SB-2571

Submitted on: 2/5/2018 11:51:05 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Wai'ala Ahn		Support	No

Comments:

Aloha,

please Support SB2571 and help to protect our oceans.

SB-2571

Submitted on: 2/6/2018 4:31:03 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

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

Comments:

Strongly Support

SB-2571

Submitted on: 2/6/2018 7:32:31 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Kallie Barnes		Support	No

Comments:

Sunscreens containing the chemicals oxybenzone and octinoxate can damage the precious coral reefs on which Hawai'i's shoreline, beaches, recreation and tourist economy all depend. These two chemicals also appear to disrupt our hormones and contribute to higher risks for breast and prostate cancer and endometriosis, among other diseases. Sunscreens that don't contain these harmful chemicals are readily available on the market across the Hawai'i islands. Please vote in favor of SB2571. Thank you.

SB-2571

Submitted on: 2/6/2018 8:18:53 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
ryan christopher		Support	No

Comments:

I want to write in to support SB2571. I dont need to point out how valuable the coral reef is to our economy. The amount of financial damage losing the reef would cost Hawaii is unimaginable. It is so important that we protect this as our food source and for our children. There are numerous other sunscreens without these damaging chemicals available. Please protect our future. Thank You!

SB-2571

Submitted on: 2/6/2018 10:52:06 AM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Tulsi Greenlee		Support	No

Comments:

Please support this bill. Thank you Tulsi

SB-2571

Submitted on: 2/6/2018 12:56:45 PM

Testimony for WTL on 2/7/2018 1:20:00 PM

Submitted By	Organization	Testifier Position	Present at Hearing
Stella Caban		Support	Yes

Comments:

I support bill SB2571.