

5661 Branch Road Wapato, WA 98951 800.936.6750 www.paceint.com

Raynox Plus® Sunburn Protectant

PREHARVEST

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Raynox Plus® Sunburn Protectant

Product Code: 10276

Product Use: Sunburn Protectant **Product Restrictions:** For Agriculture Use Only Manufacturer/Importer/Supplier/Distributor information

Valent U.S.A. LLC Supplier: Manufacturer: Pace International, LLC

Address: 5661 Branch Road, Wapato, WA 98951

800-936-6750 (Monday-Friday, 7:00 a.m. - 4:00 p.m.) **Phone Number:** Medical Emergency Phone Number: 888-271-4649 (PROPHARMA/PROSAR) Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (2012 OSHA Hazard Communication Standard) This chemical is considered non-hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification: **Precautionary Statements:** Physical Hazard, Not classified. **Prevention Statements:**

Health Hazard, Not classified. Observe good industrial hygiene practices.

Environmental Hazard, Not classified. **Response Statements:**

Hazard Symbols: Wash thoroughly after handling this product.

None. Storage Statements:

Signal Word: Store in a cool, dry area at room temperature above 45°F and below 90°F. Keep container tightly closed. Keep out of reach of None.

children and livestock.

Hazard Statements: Disposal Statements:

This mixture does not meet the criteria for

GHS classification.

applicable regional, national and local laws and regulations. Hazard(s) not otherwise classified (HNOC): None known.

Other Hazards: None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name CAS# 1,2-Propanediol 57-55-6 1 - 5*Zinc oxide 1314-13-2 0.1 - 1*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Composition *US GHS: The exact percentage (concentration) of composition has been withheld as a trade

comments: secret in accordance with paragraph (i) of §1910.1200

4. FIRST AID MEASURES

General Advice: Have the product container, label or Safety Data Sheet with you when calling a

> poison control center, physician, or going for treatment. You may also contact PROPHARMA (PROSAR) 1-888-271-4649 for emergency medical treatment

Dispose of contents/container should be made in accordance with

information.

Skin contact: IF ON SKIN: Take off immediately all contaminated clothing. Wash skin with

> plenty of soap and water/shower, if skin still feels slippery continue washing. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing

before reuse

IF IN EYES: Hold eye open and rinse cautiously with water for 15 – 20 minutes. Eye contact:

Remove contact lenses, if present, after the first 5 minutes if easy to do, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.

SDS Product Code: 10276 Page 1 of 7





Inhalation: If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion: Give large quantities of water. DO NOT induce vomiting. If vomiting occurs

> naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical

attention.

Most important

Direct contact with eyes may cause temporary irritation.

Symptoms / effects, acute

and delayed

Indication of any immediate medical attention and special treatment needed:

Provide general supportive measures and treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Special Hazards Arising from the

Chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and

precautions for firefighters:

breathing apparatus. Move containers from fire area if you can do so without risk.

Firefighting equipment/instructions:

Specific methods:

Use standard firefighting procedures and consider the hazards of other

Firefighters must wear full protective clothing including self-contained

involved materials

General fire hazards:

No unusual fire or explosion hazards noted.

Hazardous combustion products: May include and are not limited to: Oxides of carbon and oxides of nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and **Emergency procedures:**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, (see section 8 of the SDS). Large Spills: Stop the flow of material, if this is without risk. Dike the spilled

Methods and Materials for Containment and Clean-Up:

material, where this is possible. Absorb in vermiculite, dry sand or earth and place

into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground. Do not discharge

into lakes, streams, ponds or public waters.

HANDLING & STORAGE

Precautions for Safe Handling:

Use good industrial hygiene practices in handling this material. Wear appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, including any Incompatibilities:

Store in a cool, dry area at room temperature above 45°F and below 90°F. Keep container tightly closed. Store away from incompatible materials (see Section 10

of the SDS). Keep out of reach of children and livestock.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components Value Type Zinc oxide (CAS# 1314-13-2) PËL 5 mg/m3

Fume Respirable fraction. 5 mg/m3

Form

15 mg/m3 Total dust.

SDS Product Code: 10276 Page 2 of 7



US. ACGIH Threshold Limit Values

Components Value Form Type Zinc oxide (CAS# 1314-13-2) TWA 10 ma/m3 Respirable fraction. 2 mg/m3 Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components Type Value Form Zinc oxide (CAS# 1314-13-2) STEL 15 mg/m3 Dust. 10 mg/m3 Fume. TWA 5 mg/m3 Dust. 5 mg/m3 Fume.

USA Workplace Environmental Exposure Level (WEEL)

Components Value Form Type 1,2-Propanediol (CAS# 57-55-6) TWA 10 mg/m3 Aerosol.

Biological Limit Values: No biological exposure limits noted for the ingredients.

Appropriate engineering

controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles). Eye wash station and

washing facilities should be available.

Skin protection

Hand protection: Nitrile, neoprene, and vinyl (PVC) gloves or other impervious gloves. Wear protective clothing (long sleeved shirt, pants, and shoes). Other:

Where exposure guideline levels may be exceeded, use an approved NIOSH Respiratory protection: respirator. Respirator should be selected by and used under the direction of a

trained health and safety professional following requirements found in OSHA's

respirator standard (29 CFR 1910.134)

Thermal hazards: Not applicable.

Handle in accordance with good industrial hygiene and safety practice. Wash General hygiene considerations: thoroughly after handling. Do not eat, drink or smoke when using this product.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state: Liquid Upper/Lower flammability or Not available exposure limits:

Appearance / Color: Light tan Vapor pressure: Not available Odor: Waxy Vapor density: (air =1) Not available Odor threshold: Not available Specific Gravity: (H₂O = 1) 1 04

Miscible in water :Ha 6 - 8 Solubility: Melting/Freezing point: Not available Partition coefficient Not available

(n-octanol-water): 212°F (100°C)

Initial boiling point and boiling range:

Flash point: Not flammable **Decomposition temperature: Evaporation rate:** Not available Viscosity: Flammability (solid, gas): Not applicable **Explosive Properties: Oxidizing Properties:**

10. STABILITY & REACTIVITY

Reactivity hazards: This product may react with strong oxidizing agents.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Chemical stability: Material is stable under normal conditions.

Conditions to avoid: Keep away from heat / hot surfaces / sparks / open flames / and other

ignition sources. Do not mix with other chemicals.

Auto-ignition temperature:

Incompatible materials: Strong oxidizing agents.

May include and are not limited to: Oxides of carbon and oxides of Hazardous decomposition products:

nitrogen.



Not available

Not available

Not available

Not explosive

Not oxidizing



11. TOXICOLOGICAL INFORMATION

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

IngestionMay cause stomach distress, nausea or vomiting.InhalationNo adverse effects due to inhalation are expected.

Skin contact Non-irritating based on test data.

Eye contact Non-irritating based on test data.

Symptoms related to theDirect contact with eyes may cause temporary irritation.

physical, chemical and toxicological characteristics Information on toxicological effects

Acute toxicity

Components Species Test Results

Raynox Plus (CAS# Mixture)

Acute Dermal

LD50 Rat >2000 mg/kg, 24 Hours, Tested

Inhalation

LC50 Rat >5.1 mg/L, 4 Hours, Tested

Oral

LD50 Rat >2000 mg/kg, Tested

Components Species Test Results

1,2-Propanediol (CAS# 57-55-6)

Acute Dermal

LD50 Rabbit >2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Rabbit >317042 mg/m3, 2 Hours, ECHA

Oral

LD50 Rat 22000 mg/kg, ECHA
Components Species Test Results

Zinc oxide (CAS# 1314-13-2)

Acute

Dermal

LD50 Rat >2000 mg/kg, 24 Hours, ECHA

Inhalation

LC50 Mouse >5.7 mg/L, 4 Hours, HSDB Rat >5700 mg/m3, 4 Hours, ECHA

Oral

LD50 Mouse >5000 mg/kg, ECHA

2000 – 5000 mg/kg, ECHA Rat >15000 mg/kg, ECHA >5000 mg/kg, ECHA

>5 g/kg, HSDB

Skin corrosion/irritation: Non-irritating based on test data.

Exposure minutes Not available
Erythema value Not available
Oedema value Not available

Serious eye damage/eye Non-irritating based on test data.

irritation:

Corneal opacity valueNot availableIris lesion valueNot availableConjunctival reddening valueNot availableConjunctival oedema valueNot availableRecover daysNot available

Respiratory sensitization: Not a respiratory sensitizer.

Skin sensitization: Not a skin sensitizer based on test data.





Germ cell mutagenicity: No data available to indicate product or any components present at greater

than 0.1% are mutagenic or genotoxic

Carcinogenicity: See below

US. California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-Dioxane (CAS# 123-91-1) Crystalline silica (CAS# 14808-60-7) Ethylene oxide (CAS# 75-21-8)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed

Reproductive toxicity: This product is not expected to cause reproductive or developmental

effects.

Teratogenicity: Not available. Not classified. Specific target organ toxicity -

single exposure:

Specific target organ toxicity -Not classified.

repeated exposure: Aspiration hazard:

Material does not present an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity See below.

Ecotoxicological data

Components **Test Results Species**

1,2-Propanediol (CAS# 57-55-6)

Daphnia 10000 mg/L, 48 hours Crustacea EC50

Aquatic

Crustacea EC50 Water flea (Daphnia magna) >10000 mg/L, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) 710 mg/L, 96 hours

Test Results Components **Species**

Zinc oxide (CAS# 1314-13-2)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 2246 mg/L, 96 hours

Persistence/ degradability: No data is available on the degradability of this product.

No data available Bioaccumulative potential: Mobility in soil: No data available Mobility in general: Not available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical

ozone creation potential, endocrine disruption, global warming potential) are

expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Disposal should be made in accordance with applicable regional, national and local

laws and regulations.

Local disposal Dispose of in accordance with local regulations.

Regulations

Hazardous waste code This product, in its original form and concentration, would not designate as a US

federal hazardous waste when disposed.

Waste from residues /

unused products

Dispose of in accordance with local regulations. Empty containers or liners may

retain some product residues. This material and its container must be disposed of

in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even

after container is emptied. Empty containers should be taken to an approved waste

handling site for recycling or disposal.

SDS Product Code: 10276 Page 5 of 7





14. TRANSPORT INFORMATION

Transport of Dangerous Classification method: Classified according to Part 2, sections 2.1-2.8 of the Goods (TDG) Proof of Regulations for the transport of dangerous goods. If applicable, the technical name

Classification and product classification will appear below.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

US FEDERAL This product is a "Non-Hazardous Chemical" as defined by the OSHA Hazard

REGULATIONS Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Zinc oxide (CAS# 1314-13-2) Listed

SARA 304 Emergency Release Notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

OTHER FEDERAL REGULATIONS

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US STATE REGULATIONS

US - California Hazardous Substances (Director's): Listed substance

Zinc oxide (CAS# 1314-13-2) Listed

US - Illinois Chemical Safety Act: Listed substance

Zinc oxide (CAS# 1314-13-2)

US - Louisiana Spill Reporting: Listed substance

Zinc oxide (CAS# 1314-13-2) Listed

US - Michigan Critical Materials Register: Parameter number

Zinc oxide (CAS# 1314-13-2)

US - Minnesota Haz Subs: Listed substance

1,2-Propanediol (CAS# 57-55-6) Listed Zinc oxide (CAS# 1314-13-2) Listed

US - Texas Effects Screening Levels: Listed substance

1,2-Propanediol (CAS# 57-55-6) Listed Zinc oxide (CAS# 1314-13-2) Listed

US. Massachusetts RTK - Substance List

Zinc oxide (CAS# 1314-13-2)

US. New Jersey Worker and Community Right-to-Know Act

1,2-Propanediol (CAS# 57-55-6) Zinc oxide (CAS# 1314-13-2)

US. Pennsylvania Worker and Community Right-to-Know Law

1,2-Propanediol (CAS# 57-55-6)

Zinc oxide (CAS# 1314-13-2)

US. Rhode Island RTK

1,2-Propanediol (CAS# 57-55-6) Zinc oxide (CAS# 1314-13-2)

US. California Proposition 65

WARNING: This product can expose you to chemicals including Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov





US. California Proposition 65 - CRT: Listed date/Carcinogenic substance

 1,4-Dioxane (CAS# 123-91-1)
 Listed: January 1, 1988

 Crystalline silica (CAS# 14808-60-7)
 Listed: October 1, 1988

 Ethylene oxide (CAS# 75-21-8)
 Listed: July 1, 1987

US. California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene oxide (CAS# 75-21-8) Listed: August 7, 2009

US. California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene oxide (CAS# 75-21-8) Listed: February 27, 1987

US. California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene oxide (CAS# 75-21-8) Listed: August 7, 2009

Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA)Yes

Inventory

16. OTHER INFORMATION

4
3
2
1
0

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, Pace International, LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, neither Pace International, LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. It is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Pace International, LLC to confirm that you have the most current product label

This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information are set forth on the labeling and the SDS.

SDS preparation date: December 7, 2020 Replaces SDS dated: June 6, 2019

Changes since last Several updates throughout SDS all Version: 5

revision: sections.



^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)