

MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: RAYNOX[®] Apple Sunburn Protectant

Address: Office

1201 3rd Avenue, Suite 5450
Seattle, WA 98101

Manufacturing / Distribution

5661 Branch Road
Wapato, WA 98951

Emergency Phone Number: 800.424.9300 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

CAS #	Component	%	Exposure Limits
110-91-8	morpholine	< 2	20 ppm

Other Components

proprietary

3. HAZARDS IDENTIFICATION

This product is a mild irritant. Eye contact will cause minor irritation. Individuals sensitive to alkaline materials may develop dermatitis upon prolonged or repeated contact with product concentrate. If dust/mist residuals are present at or above the TLV, respiratory protection must be worn. Wear additional protective clothing as necessary to minimize contact with concentrate.

4. FIRST AID MEASURES

If in Eyes: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention if irritation persists.

If on Skin: Wash exposed areas thoroughly with soap and water. Remove contaminated clothing and launder before reuse. If skin feels slippery, continue washing until slick feeling is gone. Contact a physician if irritation persists.

If Swallowed: Give large quantities of water. DO NOT induce vomiting. If vomiting occurs administer additional fluids. Contact a physician for further directions. Never give anything by mouth to an unconscious person.

If Inhaled: Remove individual to fresh air. If breathing is difficult, give oxygen. Contact a physician if irritation persists.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Not flammable. Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool.

Special Exposure Hazards: None known.

Special Protective Equipment for Firefighters: Wear self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 for personal protection measures.

Methods for Cleaning Up: Only trained personnel equipped with proper protective gear should be permitted in the area. Stop spill at source. Reclaim material if possible for reuse. Containerize contaminated material for disposal. After all visible traces have been removed, flush area thoroughly with water.



7. HANDLING & STORAGE

- Handling:** Product may settle during extended storage; agitate or mix thoroughly before use. Good standards of hygiene should be maintained at all times. For personal protection measures, see section 8.
- Storage:** Store in a cool, dry place above 45°F but away from direct sunlight. Keep out of reach of children and livestock. Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Protective Clothing:** Wear impervious clothing and chemical resistant gloves when handling.
- Respiratory Protection:** Not normally required in areas with general ventilation. A NIOSH-approved particulate respirator is recommended when working in a dusty or misty environment.
- Eye Protection:** Safety glasses, goggles or face shield are recommended. Eye fountain and washing facilities should be present at work area.

9. PHYSICAL & CHEMICAL PROPERTIES

- Appearance:** tan to greenish-brown, opaque liquid
- Odor:** waxy carnauba odor
- Boiling Point:** 212°F (100°C)
- Flash Point:** Not flammable
- Flammable Limits:** Not applicable
- Explosive Properties:** No data available
- Oxidizing Properties:** No oxidizing properties
- Vapor Pressure:** 17 mmHg @ 20°C (68°F)
- pH (@ 25°C):** 8.5 – 9.0
- Specific Gravity:** 1.02 (H₂O=1)
- Solubility in Water:** miscible

10. STABILITY & REACTIVITY

- Conditions/Materials to Avoid:** Heat, sparks, open flames.
- Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide may form when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

No data available on the product as formulated. Information is hereby provided for individual formula components previously identified as hazardous:

Morpholine

- Acute Oral:** LD₅₀ oral (rat): 1050 mg/kg
- Acute Dermal:** LD₅₀ dermal (rabbit): 1210 mg/kg

12. ECOLOGICAL INFORMATION

No data available on the product as formulated.

13. DISPOSAL CONSIDERATIONS

Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.

14. TRANSPORT INFORMATION

Not regulated for transport.



15. REGULATORY INFORMATION

CA Prop. 65:	This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
SARA 313:	Contains no chemicals subject to SARA Title III Section 313 in quantities sufficient to trigger reporting requirements.
TSCA:	All components of this product are included or exempt from inclusion in EPA's Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
WHMIS:	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

HMIS Ratings: Health – 1 Flammability – 0 Reactivity – 0

The information herein is believed to be accurate and represents the best information currently available. However, Pace International LLC makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and assumes no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

MSDS Revision Date: 03/31/10

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