



MATERIAL SAFETY DATA SHEET

Dirtguard
6 May 2003

1. Product and Company Information

Product Name: Rantec XL

Manufacturer/Supplier: Rantec Corporation
Address: 17 Kukuchka Lane
Ranchester, WY 82839

Phone Number: (307) 655-9565
Fax Number: (307) 655-9528
e-mail: rantec@ranteccorp.com

2. Composition / Information on Ingredients

Ingredient	CAS Number	% Weight	Exposure Limits
1. Proprietary Aldehyde	Proprietary	10 to 30	None Established
OSHA Hazardous Material: Yes OSHA Hazard Categories: Irritant, Skin Sensitizer			
2. Proprietary Compound	Proprietary	10 to 30	5 mg/m ³ PEL-TWA 5 mg/m ³ TLV-TWA 5 mg/m ³ TLV-STEL
OSHA Hazardous Material: Yes OSHA Hazard Categories: Irritant			
3. Non-Hazardous Ingredients		Balance	None Established

3. Hazards Identification

Emergency Overview:

May cause eye and skin irritation. Repeated skin contact may cause sensitization (allergic reaction) in sensitive individuals.

Acute Health Effects:

Eye Contact: Contact may cause irritation based on studies with laboratory animals.

Skin Contact: Contact may cause irritation based on studies with laboratory animals.

Inhalation: Inhalation of mists may cause irritation of the nose, throat and respiratory passages. Symptoms include coughing and sore throat.

Ingestion: Swallowing may cause non-specific symptoms such as nausea and vomiting.

Chronic Health Effects: Repeated skin contact may cause inflammatory injury or skin sensitization (allergic reaction) in sensitive individuals.

Carcinogenicity: None of the components of this product are listed as carcinogens or suspected carcinogens by OSHA, IARC or NTP.



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Medical Conditions Aggravated by Exposure: Persons with pre-existing skin disorders may be at an increased risk from exposure.

4. First Aid Measures

Eye: Flush immediately with large amounts of water for 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. If irritation persists get medical attention.

Skin: Wash exposed skin with soap and water. If irritation or rash develops get medical attention.

Inhalation: If symptoms of irritation develops, remove person from source of exposure to fresh air. If symptoms persist get medical attention.

Ingestion: If the person is conscious and responsive, give 2-8 ounce glasses of water to dilute. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or drowsy. Get immediate medical attention.

5. Firefighting Measures

Flashpoint: Not Applicable

Lower Explosion Limit: Not applicable

Autoignition Temperature: Not applicable

Upper Explosion Limit: Not applicable

Extinguishing Media: Use media that is appropriate for the surrounding fire. Use water to cool fire exposed containers.

Special Fire Fighting Procedures: Wear positive pressure, self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards: This material is not a fire or explosion hazard but residue will burn after the water has evaporated. Thermal decomposition products may be toxic or corrosive.

Combustion Products: Oxides of carbon and other unidentified materials.

6: Accidental Release Measures

Wear appropriate protective clothing and equipment. Collect with an inert absorbent and place into a suitable container for disposal. Rinse residue with water.

7. Handling and Storage

Handling: Avoid breathing mists. Avoid eye and skin contact. Wash thoroughly after handling.

Storage: Store in a cool area, away from incompatible materials. Keep containers closed.

8. Exposure Controls / Personal Protection

Engineering Controls: Use with adequate ventilation to maintain concentrations below the applicable exposure limits..

Personal Protective Equipment (PPE):

Eye Protection: Safety glasses or goggles recommended.



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8. Exposure Controls / Personal Protection (continued)

Skin Protection: Rubber or other impervious gloves recommended.

Respiratory Protection: If the concentrations exceed the Threshold Value Limit (TLV), a NIOSH approved dust/mist respirator, supplied air respirator or self-contained breathing apparatus is recommended. Select appropriate respiratory protection for respirable particulates based on consideration of the airborne workplace concentrations and duration of exposure. Select and use respirators in accordance with 29 CFR 1910.134 <http://www.access.gpo.gov/nara/cfr/cfr-retrieve.html#page1>, ANSI Z88.2 <http://www.ansi.org/>, the NIOSH Respirator Decision Logic and good industrial hygiene practice. <http://www.cdc.gov/niosh/homepage.html>.

9. Physical and Chemical Properties

Boiling Point: Approx. 212°F (100°C)

Melting Point: Not applicable

Vapor Pressure: Same as water

Vapor Density (Air=1): Same as water

% Solubility in Water: Complete

Odor/Appearance: Colorless to slightly yellow, hazy liquid.

Specific Gravity: 1.2

% Volatile: 60-70%

Evaporation Rate (Butyl Acetate=1): Not Applicable

pH: Not available

Octanol/Water Partition Coefficient: Not Applicable

10. Stability and Reactivity

Stability: Material is stable.

Incompatibility: Avoid contact with strong oxidizing agents, strong acids and bases.

Hazardous Reactions-Decomposition Products: Combustion may produce carbon and other unidentified materials

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Proprietary Aldehyde: Oral rat LD50: 3.08 ml/kg; Dermal rabbit LD50 5.0 ml/kg; Inhalation rat LC50 >10.5 mg/L

Proprietary Compound: Oral rat LD50: >5000 mg/kg

12. Ecological Information

No ecotoxicity data is available at this time.

13. Disposal Considerations

Dispose in compliance with all applicable federal, state and local regulations.

14. Transport Information

U.S. Department of Transportation (DOT)

Proper Shipping Name: Not Regulated

Hazard Class: N/A

UN/NA Code: N/A

Packing Group: N/A

Labels Required: N/A

14. Transport Information (continued)



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IMDG CODE

Proper Shipping Name: NOT REGULATED

Hazard Class: N/A

UN/NA Code: N/A

Packaging Group: N/A

Labels Required: N/A

15. Regulatory Information

Regulatory Information

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA) Reportable Quantity:

This product is not subject to CERCLA reporting requirements as it is sold.

OSHA Hazard Categories: Irritant, Sensitizer

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 Hazard Categories: Acute Health

This product contains the following toxic chemical(s) subject to reporting requirements of SARA

Section 313: None

California Proposition 65: This product is not known to contain chemicals regulated under California Prop. 65.

Toxic Substances Control Act (TSCA): All components of this product are listed on the TSCA inventory or exempt from notification requirements.

16. Other Information

NFPA Hazard Ratings:

Health: 1 Flammability: 0 Reactivity: 0

HMIS Hazard Ratings:

Health: 1 Flammability: 0 Reactivity: 0

Abbreviations:

ACGIH	American Conference Of Governmental Industrial Hygienists
ANSI	American National Standards Institute
CAS	Chemical Abstracts Service
CDC	Centers for Disease Control and Prevention
CFR	The Code of Federal Regulations
EEC	European Economic Community
EINECS	European Inventory of Existing Commercial Chemical Substances
EPA	United States Environmental Protection Agency
FDA	United States Food and Drug Administration
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IMDG	International Maritime Dangerous Goods
LD50	Lethal Dose expected to cause death in 50% of the test animals
MITI	Ministry of International Trade and Industry
NFPA	National Fire Protection Association



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NIOSH	CDC - National Institute for Occupational Safety
NTP	National Toxicological Program
OSHA	U.S. Department of Labor, Occupational safety and health administration
PEL	OSHA - permissible exposure limit
TLV	ACGIH - threshold limit value
TWA	Time weighted average
UN/NA	United Nations / North America
US	United States
WHMIS	Workplace Hazardous Materials Information System

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