



MATERIAL SAFETY DATA SHEET

RB006

12 February 2008

1. Product and Company Information

Product Name: RB006 and B2000

Manufacturer/Supplier: Rantec Corporation
Address: P.O. Box 729
Hwy 14 West
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
Glycerin	56-81-5	10-30	5 mg/m ³ (respirable) PEL-TWA 10 mg/m ³ TLV-TWA
Sodium Metaborate Tetrahydrate	10555-76-7	10-50	5 mg/m ³ (respirable) PEL-TWA 3 mg/m ³ (respirable) TLV-TWA (as Particulates Not Otherwise Classified)

OSHA Hazardous Material: Yes

3. Hazards Identification

Emergency Overview:

Clear, viscous liquid with no odor.

Cause eye and skin irritation. Inhalation of mists may cause respiratory irritation. Swallowing may cause irritation.

Acute Health Effects:

Eye Contact: Contact may cause moderate to severe irritation possible eye damage.

Skin Contact: Skin contact may cause irritation and redness.

Inhalation: Inhalation of mists may cause irritation of the nose, throat and upper respiratory tract with coughing and sore throat.

Ingestion: Swallowing may cause gastrointestinal irritation, nausea, vomiting or diarrhea.

Chronic Health Effects: No adverse effects expected.

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

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



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4. First Aid Measures

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

Skin: Remove contaminated clothing and wash thoroughly with soap and water. If irritation or rash develops get medical attention. Use skin lotion if dryness occurs.

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

Ingestion: If conscious, give the person 1-2 glasses of water to dilute. Do not make the person vomit unless directed to do so by medical personnel. Get immediate medical attention.

5. Firefighting Measures

Flashpoint: None

Autoignition Temperature: None

Lower Explosion Limit: Not determined

Upper Explosion Limit: Not determined

Extinguishing Media: This product is not combustible. Use any media appropriate for the surrounding fire.

Special Fire Fighting Procedures: Wear positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed container with water.

Unusual Fire and Explosion Hazards: None known.

Combustion Products: Carbon dioxide and carbon monoxide.

6: Accidental Release Measures

Wear appropriate protective clothing and equipment. Collect with absorbent material and place into a suitable container for disposal. Do not flush to sewer or waterways.

7. Handling and Storage

Handling: Avoid eye and skin contact. Avoid breathing mists. Use with adequate ventilation. Wash thoroughly after handling. Launder contaminated clothing before reuse.

Storage: Store in a cool, dry area. Keep containers closed when not in use.

8. Exposure Controls / Personal Protection

Engineering Controls: Use general or local exhaust ventilation as needed to maintain exposure concentrations below the recommended limits.

Personal Protective Equipment (PPE)

Eye Protection: Safety glasses or goggles recommended.

Skin Protection: Neoprene or nitrile rubber gloves recommended.

Respiratory Protection: None needed under normal use conditions. If the TLV is exceeded, a NIOSH/MSHA approved dust/mist respirator is recommended. Select appropriate respiratory protection for respirable particulates



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based on consideration of the airborne workplace concentrations and duration of exposure. Select and use respirators in accordance with 29 CFR 1910.134, ANSI Z88.2, the NIOSH Respirator Decision Logic and good industrial hygiene practice.

9. Physical and Chemical Properties

Boiling Point: Not determined
Melting Point: Not determined
Vapor Pressure: Not determined
determined

Vapor Density (Air=1): Not determined

% Solubility in Water: Complete

Odor/Appearance: Clear, viscous liquid with no odor.

Specific Gravity: 1.2

% Volatile: Not determined

Evaporation Rate (Butyl Acetate=1): Not

pH: 12.6

Octanol/Water Partition Coefficient: Not determined

10. Stability and Reactivity

Stability: Material is stable.

Incompatibility: Avoid contact with strong oxidizing agents, hydrogen peroxide, potassium permanganate, calcium hypochlorite, nitric acid, sulfuric acid and lead oxide. Reacts with reducing agents to release flammable hydrogen gas. May corrode metals.

Hazardous Reactions-Decomposition Products: Thermal decomposition may produce carbon dioxide and carbon monoxide.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Glycerine: Oral rat LD50: 12,600 mg/kg
Oral mouse LD50: 4090 mg/kg

Sodium Borate Tetraborate: Oral rat LD50: 2,330

Animal studies indicated that high doses of borates cause reproductive and developmental effects. A human study of occupational exposure to borate dust showed no adverse effects on reproduction.

12. Ecological Information

No ecotoxicity data is available for the product as a whole. Boron is naturally occurring and ubiquitous in the environment. Sodium metaborate decomposes in the environment to natural borate.

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

IMDG CODE

Proper Shipping Name: NOT REGULATED

Hazard Class: N/A



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UN/NA Code: N/A
Packaging Group: N/A
Labels Required: N/A

15. Regulatory Information

U.S. Regulations

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

This product is not subject to CERCLA reporting requirements as it is sold. State and local regulations often have more stringent release reporting requirements. Report releases as required.

OSHA Hazard Categories: Irritant

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 chemical regulated under California Proposition 65.

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

Canadian Environmental Protection Act: All of the components of this product are listed on the Canadian Domestic Substances List or exempt from notification requirements.

European Inventory of Commercial Chemical Substances: All of the components of this product are listed on the EINECS Inventory or exempt from notification requirements.

Australian Inventory of Chemical Substances: All of the components of this product are listed on the AICS Inventory or exempt from notification requirements.

Japan MITI: All of the components of this product are existing chemical substances as defined in the Chemical Substance Control Law.

Canadian WHIMIS Classification: Class D, Division 2, Subdivision B (Toxic material causing other chronic effects)

16. Other Information

NFPA Ratings:

Health: 1 Flammability: 0 Reactivity: 0

HMIS Ratings:

Health: 1 Flammability: 0 Reactivity: 0

Abbreviations:



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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
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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