

MATERIAL SAFETY DATA SHEET

Product: B-P No. 1 Brightner

SECTION I

Manufacturer's Name: Bradford Derustit Corp. www.derustit.com, e-mail: derustit@albany.net
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EMERGENCY TELEPHONE NUMBER: 1-800-424-9300

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SECTION II – Hazardous Ingredient/Identity Information

HAZARDOUS COMPONENTS OSHA PEL ACGIH TLV % SARA TITLE III REPORTING

CAS#	COMMON NAME	OSHA PEL	ACGIH TLV %	302	304	312	313
7697-37-2	Nitric Acid	2 ppm	2 ppm	<= 5	x	x	x
7664-38-2	Phosphoric Acid	1 mg/M3	1 mg/M3	<= 10	x	x	x
62-56-6	Thiourea* +		NE	<= 2	x	x	x

* Acute Tox. Ipr LD50(rat) 436mg/kg; oral TDLO (women) 1600 mg/kg.

+ California EPA has determined this chemical to be carcinogenic.

The components listed above are subject to required reporting under SARA TITLE III, Emergency Planning & Community Right-To-Know Act, Sections 302, 304, 312 and 313 as indicated above. For more information on reporting, contact the EPA hotline (800-535-0202) or your state emergency response agency.

SECTION III – Physical/Chemical Characteristics

NA – Not Applicable

BOILING POINT: (Degrees F) 215 MELTING POINT: NA SPECIFIC GRAVITY: 1.050

VAPOR PRESSURE: (At 70 degrees) 76 +/- VAPOR DENSITY: (AIR = 1) EVAPORATION RATE: (Water = 1) 1

SOLUBILITY IN WATER: 100% APPEARANCE AND ODOR: Light brown liquid, slight pungent odor. PH = 1.9

SECTION IV – Fire and Explosion Hazard Data NFPA Rating: Health 2 Flammability 0 Reactivity 1

FLASH POINT: (Method used): Not flammable FLAMMABLE LIMITS: NA LEL: NA UEL: NA

EXTINGUISHING MEDIA: Water

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus, eye and face protection, protective gloves and protective clothing when fighting fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Reaction with metals may release hydrogen, which can form explosive mixtures with air. Thermal decomposition may form acid vapors, nitrogen compounds, phosphorous oxides or other toxic materials.

SECTION V – Reactivity Data

STABILITY: Stable CONDITIONS TO AVOID: None

IMCOMPATIBILITY (Materials to Avoid) Sulfuric acid, strong alkalis, and reducing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May liberate nitric oxide or phosphoric oxides.

HAZARDOUS POLYMERIZATION: Will not occur. Conditions to Avoid: None

SECTION VI – Health Hazard Data

ROUTES OF ENTRY: INHALATION: X SKIN: X INGESTION: Not likely

HEALTH HAZARDS: (Acute and Chronic)

- Inhalation: Damage to nasal and respiratory passages.
 - Eyes: Severe damage, possible blindness.
 - Skin: Burns, possible ulceration.
 - Ingestion: Damage to mouth, throat and stomach.
- Thiourea can cause hemolytic effects.

CARCINOGENICITY: Thiourea is a cancer suspect agent.

SIGNS AND SYMPTOMS OF EXPOSURE:

- Inhalation: Irritation, coughing, chest pain, breathing difficulty.
- Eyes: Irritation.
- Skin: Irritation, allergic skin eruptions.
- Ingestion: Mouth/throat irritation, nausea, vomiting.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Skin disorders, kidney, liver or respiratory problems, anemia.

EMERGENCY FIRST AID PROCEDURES:

- Eye or skin: Flush immediately with copious running water for at least 15 minutes. Remove contaminated clothing.
- Inhalation: Remove to fresh air. Give artificial respiration if not breathing.
- Ingestion: DO NOT induce vomiting. Give large quantities of milk or water to dilute acid.

GET IMMEDIATE MEDICAL HELP for ANY exposure: EYES, SKIN, INHALATION or INGESTION.

SECTION VII: Precautions for Safe Handling and Use**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:**

- Small spill: Neutralize with sodium bicarbonate or 50/50 mixture of soda ash and slaked lime. Flush with water.
- Large spill: Wear protective clothing and equipment. Contain by diking with non-combustible absorbent material.

Pump to salvage tank. Neutralize with 50/50 mixture of soda ash and slaked lime. Scoop up neutralized mixture and wash site with soda ash solution. Report spills in accordance with applicable government regulations.

WASTE DISPOSAL METHOD: Neutralize to pH of 5.5 or above with CaOH; neutralized effluent is biodegradable. Dispose of waste in accordance with applicable government regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: DO NOT WEAR CONTACT LENSES. Wear protective equipment when handling. Store where accidental mixing with sulfuric acid cannot occur. In case of spill, remove and discard contaminated clothing or laundry before use. Discard contaminated shoes.

OTHER PRECAUTIONS: Emptied containers may contain product residues (liquid or vapor) and be hazardous. Do not reuse. Dispose of in accordance with applicable government regulations.

SECTION VIII - Control Measures

RESPIRATORY PROTECTION (Specify Type): Not needed if adequate ventilation is provided. If needed, use self-contained breathing apparatus or supplied air respirator or other NIOSH approved respirator.

VENTILATION: LOCAL EXHAUST? Mechanical with hood. SPECIAL? NA

MECHANICAL (General)? Not recommended. OTHER? NA PROTECTIVE GLOVES: Rubber gloves

EYE PROTECTION: Chemical goggles and full face shield unless full face piece respirator is worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Rubber apron recommended. Depending on size of operation, acid resistant slicker suit with rubber boots may be advisable. Eye wash and safety shower.

WORK/HYGIENIC PRACTICES: Do not reuse emptied containers. Clean up spills immediately. Do not eat or keep food in the work area. Wash hands before eating.