



# MATERIAL SAFETY DATA SHEET

B-P No. 1 Brightner™

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** B-P No. 1 Brightner  
**Product Use:** Cleaner.  
**Manufacturer/Supplier:** Bradford Derustit Corp.  
21660 Waterford Dr.  
Yorba Linda, CA 92887  
**Phone Number:** 1-877-899-5315  
**International:** 1-503-691-9721  
**Emergency Phone:** 1-877-899-5315  
**International:** 1-703-527-3887 (collect)  
**Date of Preparation:** February 3, 2010

## Section 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

DANGER

TOXIC BY INHALATION. CORROSIVE MATERIAL. CAUSES BURNS.

**Potential Health Effects:** See Section 11 for more information.

**Likely Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.

**Eye:** Causes burns.

**Skin:** Causes burns.

**Ingestion:** Causes burns. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** Toxic by inhalation. Irritating to respiratory system.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation.

**Signs and Symptoms:** Severe deep burns to eyes. Redness. Pain. Blisters. Serious skin burns.

**Medical Conditions Aggravated By Exposure:** Because of its irritating properties, product may aggravate pre-existing skin, eye, and respiratory conditions.

**Target Organs:** Skin, eyes, gastrointestinal tract, respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This product is a hazardous chemical as defined by NOM-018-STPS-2000.

**Potential Environmental Effects:** May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	UN Number	H / F / R / Special*	CAS #	Wt. %
Phosphoric acid	UN1805	3/0/0	7664-38-2	5 - 10
Nitric acid	UN2032	4/0/0/OX	7697-37-2	3 - 7
Thiourea	UN2811	Not available.	62-56-6	1 - 5

\* Per NOM-018-STPS-2000

## Section 4: FIRST AID MEASURES

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

**Note to Physicians:** Symptoms may not appear immediately.

## Section 5: FIRE FIGHTING MEASURES

**Flammability:** Not flammable by WHMIS/OSHA criteria.

### Means of Extinguishing:

**Suitable Extinguishing Media:** Powder, water spray, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Not available.

**Products of Combustion:** May include, and are not limited to: oxides of carbon, oxides of nitrogen, oxides of phosphorous, oxides of sulfur, acid vapours.

### Explosion Data:

**Sensitivity to Mechanical Impact:** Not available.

**Sensitivity to Static Discharge:** Not available.

**Protection of Firefighters:** Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental Precautions:** Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Clean-Up:** Scoop up material and place in a disposal container.

**Other Information:** Not available.

## Section 7: HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

**Storage:** Keep out of the reach of children. Keep container tightly closed. Store away from incompatibles.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient	Exposure Guidelines	
	OSHA-PEL	ACGIH-TLV
Phosphoric acid	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Nitric acid	2 ppm	2 ppm
Thiourea	Not available.	Not available.

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

## Personal Protective Equipment:

**Eye/Face Protection:** Wear approved eye protection (properly fitted dust- or splashproof chemical safety goggles) and face protection (face shield).

**Hand Protection:** Wear suitable gloves.

**Skin and Body Protection:** Wear suitable protective clothing, including appropriate boots, boot covers, overshoes, etc., as may be appropriate.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear.  
**Color:** Brown.  
**Odour:** Pungent.  
**Odour Threshold:** Not available.  
**Physical State:** Liquid.  
**pH:** 1.9  
**Viscosity:** 1 (Air = 1)  
**Freezing Point:** Not available.  
**Boiling Point:** ~ 102 °C (~ 215.6 °F)  
**Flash Point:** Not available.  
**Evaporation Rate:** 1 (Water = 1)  
**Lower Flammability Limit:** Not available.  
**Upper Flammability Limit:** Not available.  
**Vapor Pressure:** 24.4°C @21.1°C (76°F @70°F)  
**Vapor Density:** 1 (Air = 1)  
**Specific Gravity:** 1.05  
**Solubility in Water:** Complete.  
**Coefficient of Water/Oil Distribution:** Not available.  
**Auto-ignition Temperature:** Not available.  
**Percent Volatile, wt. %:** Not available.  
**VOC content, wt. %:** Not available.

## Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions.

**Conditions of Reactivity:** Heat. Incompatible materials.

**Incompatible Materials:** Sulfuric acid. Reducing agents. Alkalis.

**Hazardous Decomposition Products:** May include, and are not limited to: oxides of carbon, oxides of nitrogen, oxides of phosphorous, oxides of sulfur, acid vapours.

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

## Section 11: TOXICOLOGY INFORMATION

### EFFECTS OF ACUTE EXPOSURE

Component Analysis			
Ingredient	IDLH	LD <sub>50</sub> (oral)	LC <sub>50</sub>
Phosphoric acid	1000 mg/m <sup>3</sup>	1530 mg/kg, rat >	850 mg/m <sup>3</sup> 1hr, rat
Nitric acid 25 ppm	Not	130 mg/m <sup>3</sup> 4hrs, rat	
Thiourea	Not	125 mg/kg, rat	Not available.

**Eye:** Causes burns. Severe deep burns to eyes.

**Skin:** Toxic in contact with skin. Causes burns. Redness. Pain. Blisters. Serious skin burns.

**Ingestion:** Causes burns. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** Toxic by inhalation. Irritating to respiratory system.

### EFFECTS OF CHRONIC EXPOSURE

**Target Organs:** Not available.

**Chronic Effects:** Not hazardous by WHMIS/OSHA criteria.

**Carcinogenicity:** Hazardous by WHMIS/OSHA criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
Phosphoric acid	Not listed.
Nitric acid	Not listed.
Thiourea	N-2, CP65

\* See Section 15 for more information.

**Mutagenicity:** Not hazardous by WHMIS/OSHA criteria.

**Reproductive Effects:** Not hazardous by WHMIS/OSHA criteria.

**Developmental Effects:**

**Teratogenicity:** Not hazardous by WHMIS/OSHA criteria.

**Embryotoxicity:** Not hazardous by WHMIS/OSHA criteria.

**Respiratory Sensitization:** Not hazardous by WHMIS/OSHA criteria.

**Skin Sensitization:** Not hazardous by WHMIS/OSHA criteria.

**Toxicologically Synergistic Materials:** Not available.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** May cause long-term adverse effects in the aquatic environment.

**Persistence / Degradability:** Not available.

**Bioaccumulation / Accumulation:** Not available.

**Mobility in Environment:** Not available.

## Section 13: DISPOSAL CONSIDERATIONS

**Disposal Instructions:** This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

## Section 14: TRANSPORTATION INFORMATION

### DOT Classification

UN3289, Toxic Liquid, Corrosive, Inorganic, n.o.s. (Phosphoric acid, Nitric acid, Thiourea), Class 6.1 (8), PG II

ORM-D (< 0.1L)

### TDG Classification

UN3289, Toxic Liquid, Corrosive, Inorganic, n.o.s. (Phosphoric acid, Nitric acid, Thiourea), Class 6.1 (8), PG II

Limited Quantity (< 0.1L)

### NOM-004-SCT2-1994 Classification

UN3289, Toxic Liquid, Corrosive, Inorganic, n.o.s. (Phosphoric acid, Nitric acid, Thiourea), Class 6.1 (8), PG II

Limited Quantity (< 0.1L)

## Section 15: REGULATORY INFORMATION

### Federal Regulations

**Canadian:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**US:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

**Mexico:** MSDS prepared pursuant to NOM-018-STPS-2000.

SARA Title III				
Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Phosphoric acid	Not listed.	Not listed.	5,000	Not listed.
Nitric acid	1,000	1,000	1,000	313
Thiourea	Not listed.	Not listed.	10	313

### State Regulations

#### California Proposition 65:

This product contains a chemical known to the state of California to cause cancer.

Global Inventories		
Ingredient	Canada DSL/NDSL	USA TSCA
Phosphoric acid	DSL.	Yes.
Nitric acid	DSL.	Yes.
Thiourea	DSL.	Yes.

## HMS - Hazardous Materials Identification System

**Health - 3 Flammability - 0 Physical Hazard - 1**

## NFPA - National Fire Protection Association:

**Health - 3 Fire - 0 Reactivity - 1**

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

## WHMIS Classification(s):

Class D1B - Toxic Material

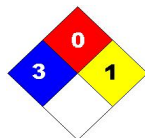
Class D2A - Carcinogenicity

Class E - Corrosive Material

## WHMIS Hazard Symbols:



## Mexico Classification:



**Blue = Health Red = Flammability Yellow = Reactivity White = Special**

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

## SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

### OSHA (O)

Occupational Safety and Health Administration.

### ACGIH (G)

American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

### IARC (I)

International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

### NTP (N)

National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

## Section 16: OTHER INFORMATION

**Disclaimer:** The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

**Expiry Date:** February 3, 2013

Version #: 1.0

Prepared by: Nexreg Compliance Inc.

Phone: (519) 488-5126

www.nexreg.com