

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: BREAK DOWN **PRODUCT I.D. NUMBER (PIN):** N.A.
PRODUCT NUMBER: NA **WHMIS CLASS:** D2B
PRODUCT USE: High foam heavy duty degreaser **DOT HAZARD CLASS:** Non-Hazardous
COMPANY: **DOT SHIPPING NAME:**
P.B. GAST AND SONS CO., INC N.A.
355 COTTAGE GROVE S.E.
GRAND RAPIDS, MICHIGAN 49507

H.M.I.S.

3	HEALTH	HAZARD RATING 4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant
0	FIRE	
0	REACTIVITY	
C	MAXIMUM PERSONAL PROTECTION	

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

ABBREVIATION KEY: N.A. - Not Applicable N.E. = Not Established N.D. = Not Determined

SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION

HAZARDOUS CHEMICAL IDENTITY	CAS NO.	%	PEL	TLV	LD50	LC50
Water	7732-18-5	60-100	N.E.	N.E.	N.D.	N.D.
Isopropanol	67-63-0	1-5	400ppm	400ppm	5.8g/kg	N.D.
Sodium metasilicate	6834-92-0	1-5	2mg/m ³	2mg/m ³	847mg/kg	N.D.
Tetrasodium EDTA	64-02-8	5-10	N.E.	N.E.	4100mg/kg	N.D.
Potassium hydroxide	1310-58-3	0.1-1	2mg/m ³	2mg/m ³	365mg/kg	N.D.
Alkanolamide	N.A.	1-5	N.E.	N.E.	N.D.	N.D.

This mixture does not contain components which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR, Part 372.

SECTION 3 - PHYSICAL DATA

Color: Light Amber **Boiling Point:** 100°C (212°F) **Vapor Pressure:** <30 mm of Hg **pH:** 12.5 - 13.0
Odor: Bland **Freezing Point:** 0°C (32°F) **Vapor Density (Air=1):** <1 **1% pH:** 9.5
Physical State: Liquid **Water/Oil Distribution:** N.E. **Evaporation Rate (Water=1):** N.E. **Specific Gravity:** 1.10 gm/ml
Solubility in Water: Complete **Odor Threshold:** N.E. **VOC Content:** 1.5% **Weight per Gallon:** 9.19 lbs./gal.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: N.A. **Autoignition Temperature:** N.A. **Extinguishing Media:** Use dry chemical or CO2.
Flammable Limits: N.A. **LEL:** N.A. **UEL:** N.A. **Special Fire Fighting Procedures:** Use proper protective equipment.
Hazardous Combustion Products: N.A. **Unusual Fire and Explosion Hazards:** None.

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable. **Hazardous decomposition of By-Products:** None known.
Incompatibility (Materials to Avoid): Strong acids and oxidizers. **Hazardous Polymerization:** Will not occur.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion. Inhalation. Skin contact. Eye contact. **Toxicologically Synergistic Products:** None known.
Sensitization: No. **Medical Conditions Aggravated by Exposure:** None known.
EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):
Eyes: May cause severe irritation, redness, burns and possible corneal injury. **Carcinogenic Effects:** NO carcinogenic effect.
Skin: May cause severe irritation, redness, burns. **Mutagenic Effects:** NO mutagenic effect.
Ingestion: May cause severe irritation or burning of gastrointestinal tract and possible mucosal injury. **Teratogenic Effects:** NO teratogenic effect.
Inhalation: May irritate respiratory tract when used with inadequate ventilation. **Reproductive Toxicity:** NO reproductive toxicity effect.

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: None normally required with adequate ventilation. **Ventilation:** Local Exhaust: Acceptable Mechanical: Recommended
Protective Gloves: Rubber/Neoprene. **Eye Protection:** Chemical splash goggles.
Protective Clothing and Equipment: Full cover clothing - rubber apron. **Work and Hygienic Practices:** Avoid contact with eyes, skin and clothing.
Storage Requirements: Store in cool, dry area. Follow good housekeeping practices. **Other Requirements:** Keep out of reach of children.

Steps to be Taken if Material is Spilled or Released: Collect and reuse if possible. Dilute and flush to sewer with large quantities of water if permitted by regulatory authorities or absorb on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow runoff into public waterways.

Waste Disposal: Dispose of as permitted by all federal, provincial, state and local regulatory authorities.

SECTION 8 - EMERGENCY FIRST AID PROCEDURES

FIRST AID - NOTES TO PHYSICIAN:

Eyes: Flush with a large amount of water for 15 minutes holding eyelids open. Seek medical attention.
Skin: Remove contaminated clothing and footwear. Flood/shower with water.
Ingestion: Rinse mouth with water. Give 2-3 large glasses of water. Do not induce vomiting. Seek medical attention.
Inhalation: Remove to fresh air and rest. In all cases if symptoms persist, seek medical attention.
Note to Physician: No additional information.

SECTION 9 - PREPARATION INFORMATION

Prepared By: Regulatory Affairs Department **Phone:** 616-245-0574 **Date of Preparation:** 11/7/2008.