

# MATERIAL SAFETY DATA SHEET

## SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: LIQUID DISHWASH

PRODUCT I.D. NUMBER (PIN): N.A.

PRODUCT NUMBER: NA

WHMIS CLASS: D2B

PRODUCT USE: Pot and pan detergent

DOT HAZARD CLASS: Non-Regulated

COMPANY:

P.B. GAST AND SONS CO., INC  
355 COTTAGE GROVE S.E.  
GRAND RAPIDS, MICHIGAN 49507

DOT SHIPPING NAME:  
N.A.

EMERGENCY PHONE: 800-843-6174

H.M.I.S.

		HAZARD RATING
0	HEALTH	4 = Extreme 3 = High 2 = Moderate 1 = Slight 0 = Insignificant
0	FIRE	
0	REACTIVITY	
A	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.
TEA-Dodecylbenzene sulfonate	27323-41-7	10-30	N.E.	N.E.	>5ml/kg	N.D.
Coco betaine	68424-94-2	1-5	N.E.	N.E.	N.D.	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: Yellow	Boiling Point: 100°C (212°F)	Vapor Pressure: <30 mm of Hg	pH: 7.5 - 8.5
Odor: Lemon	Freezing Point: 0°C (32°F)	Vapor Density (Air=1): <1	1% pH: 7.8
Physical State: Liquid	Water/Oil Distribution: N.E.	Evaporation Rate (Water=1): N.E.	Specific Gravity: 1.03 gm/ml
Solubility in Water: Complete	Odor Threshold: N.E.	VOC Content: 0.0%	Weight per Gallon: 8.59 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: None.
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): None known.	Hazardous Polymerization: Will not occur.

## SECTION 6 - TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion.	Toxicologically Synergistic Products: None known.
Sensitization: No.	Medical Conditions Aggravated by Exposure: None known.
EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):	
Eyes: Direct contact may cause irritation.	Carcinogenic Effects: NO carcinogenic effect.
Skin: Non-hazardous in the case of skin contact.	Mutagenic Effects: NO mutagenic effect.
Ingestion: May cause gastrointestinal irritation, nausea, diarrhea.	Teratogenic Effects: NO teratogenic effect.
Inhalation: Non-hazardous in the case of inhalation.	Reproductive Toxicity: NO reproductive toxicity effect.

## SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: None required.	Ventilation: Local Exhaust: N.A. Mechanical: N.A.
Protective Gloves: None required.	Eye Protection: Avoid eye contact.
Protective Clothing and Equipment: None required.	Work and Hygienic Practices: After handling, always wash hands thoroughly with soap and water.
Storage Requirements: 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. Flush to sewer with large quantities of water if permitted by regulatory authorities. Thoroughly rinse spill area to prevent slippery conditions.

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.

Skin: Non-hazardous in the case of skin contact.

Ingestion: Give 2-3 large glasses of water. Seek medical attention.

Inhalation: Non-hazardous in the case of inhalation.

Note to Physician: No additional information.

## SECTION 9 - PREPARATION INFORMATION

Prepared By: Regulatory Affairs Department

Phone: 616-245-0574, 800-968-4278

Date of Preparation: 5/15/2007.