

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: CLEAR LITE GLASS CLEANER PRODUCT I.D. NUMBER (PIN): N.A.

PRODUCT NUMBER: NA

WHMIS CLASS: B3; D2B

PRODUCT USE: Window cleaner

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

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.
2-Butoxyethanol	111-76-2	4	25ppm	25ppm	450mg/kg	700ppm 7hr
Isopropanol	67-63-0	0.1-1	400ppm	400ppm	5.8g/kg	N.D.
Ammonium hydroxide	1336-21-6	0.1-1	N.E.	N.E.	350mg/kg	N.D.
Nonionic surfactants	9036-19-5	1-5	N.E.	N.E.	N.D.	N.D.

This mixture contains 4% 2-Butoxyethanol which is 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: Varied	Boiling Point: 100°C (212°F)	Vapor Pressure: <30 mm of Hg	pH: 9.4 - 10.0
Odor: Alcohol	Freezing Point: 0°C (32°F)	Vapor Density (Air=1): <1	1% pH: 7.0 - 7.5
Physical State: Liquid	Water/Oil Distribution: N.E.	Evaporation Rate (Water=1): N.E.	Specific Gravity: 0.99 gm/ml
Solubility in Water: Complete	Odor Threshold: N.E.	VOC Content: 6.7%	Weight per Gallon: 8.28 lbs./gal.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: 126°F 52°C (C.C.)	Autoignition Temperature: N.A.	Extinguishing Media: Use dry chemical or CO2.
Flammable Limits: Combustible Liquid.	LEL: N.E. UEL: N.E.	Special Fire Fighting Procedures: Use proper protective equipment.
Hazardous Combustion Products: N.A.		Unusual Fire and Explosion Hazards: Avoid sources of ignition.

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable.	Hazardous decomposition of By-Products: None known.
Incompatibility (Materials to Avoid): Strong oxidizers and sources of ignition.	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 irritation.	Carcinogenic Effects: NO carcinogenic effect.
Skin: May cause mild irritation. May be absorbed through skin with prolonged or repeated contact.	Mutagenic Effects: NO mutagenic effect.
Ingestion: May cause gastrointestinal irritation, nausea, diarrhea.	Teratogenic Effects: NO teratogenic effect.
Inhalation: Exposure in poorly ventilated area may cause respiratory irritation.	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 for prolonged or repeated contact.	Eye Protection: Safety glasses if splashing is likely.
Protective Clothing and Equipment: As needed to prevent wetting of skin.	Work and Hygienic Practices: After handling, always wash hands thoroughly with soap and water.
Storage Requirements: Store in cool, dry area away from sources of ignition. Empty container retains vapor and product residue; do not puncture or weld on or near container.	Other Requirements: Keep out of reach of children.
Steps to be Taken if Material is Spilled or Released: Collect and reuse if possible. Ventilate area and remove all sources of ignition. Collect 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.

Skin: Wash with mild soap and water.

Ingestion: Give 2-3 large glasses of water. 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, 800-968-4278

Date of Preparation: 5/7/2007.