

MATERIAL SAFETY DATA SHEET

Total Solutions
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GENERAL INFORMATION NUMBER: (414) 354-6417
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I - Product Identification

Glass Cleaner

PRODUCT CODE: 8312

CHEMICAL FORMULATION: Pressurized water based cleaner.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX	OSHA	ACGIH	EPA 40 CFR:			CAS #
	%	TWA	TWA	302	355	372	
2-Butoxyethanol	3.0-5.0	50 ppm (skin)	20 ppm	N	N	N	111-76-2
Ethyl Alcohol	3.0-5.0	1000 ppm	1000 ppm	N	N	N	64-17-5
Propane	3.0-5.0	1000 ppm	1000 ppm	N	N	N	74-98-6
n-Butane	3.0-5.0	N/E	1000 ppm	N	N	N	106-97-8

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): 204.58 (estimated)

SPECIFIC GRAVITY (WATER = 1): 0.957

VAPOR PRESSURE (mm Hg): 65-75 @ 700°F

VOC CONTENT (% by weight): <10.0

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE (WATER = 1): N/D

SOLUBILITY IN WATER: Complete

pH: 9.5-10.5

APPEARANCE AND ODOR: Aerosol colorless spray; butyl odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): -76 (estimated) (TEST METHOD): TCC

FLAME EXTENSION: N/D

FLAMMABLE LIMITS IN AIR (VOLUME %) (PROPELLANT)

UPPER: N/D

LOWER: N/D

EXTINGUISHING MEDIA: Carbon dioxide, water spray, foam or dry chemical.

NFPA 30B Rating: 1

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: Contents under pressure! Exposure to temperatures above 120° F may cause bursting.

V - Reactivity Data

STABILITY: Stable**INCOMPATIBILITY:** None known.**CONDITIONS TO AVOID:** Heat, sparks and open flames. Dropping of containers may cause bursting.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon and nitrogen.**HAZARDOUS POLYMERIZATION:** Will not occur.

VI - Health Hazard Data

ROUTES OF ENTRY **INHALATION:** X **EYE CONTACT:** X **SKIN CONTACT:** X **INGESTION:**
INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None**EFFECTS OF OVEREXPOSURE****IF IN EYES:** May cause mild irritation.**IF ON SKIN:** May be harmful if absorbed through the skin. Prolonged or repeated exposure can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).**IF SWALLOWED:** None under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.**IF INHALED:** Intentional misuse by concentrating and inhaling the product can be harmful or fatal.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.**IF ON SKIN:** Flush skin with water while removing contaminated clothing. Launder clothing separately before reuse. If irritation persists, obtain medical attention.**IF SWALLOWED:** Contact physician or poison control center immediately. Do not induce vomiting unless instructed by a physician or poison control center.**IF INHALED:** Remove person to fresh air. If breathing has stopped, administer artificial respiration. If irritation persists, obtain medical attention.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area. Remove all sources of ignition. Soak up material with inert absorbent material and place in a labeled closed container for disposal.**WASTE DISPOSAL METHOD:** Consult local environmental authorities. Dispose of cans in non-incinerated trash only.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. Do not breathe vapors or mists. If recommended Exposure Limits are exceeded, wear a NIOSH approved respirator, following manufacturer's recommendations.**VENTILATION** **LOCAL:** Recommended **MECHANICAL:** Not required**PROTECTIVE GLOVES:** Chemical resistant.**EYE PROTECTION:** Not normally needed, but safety glasses when necessary**OTHER PROTECTIVE EQUIPMENT:** Protective clothing.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away from heat, sparks or open flame. Do not store at temperatures above 120 F.**OTHER PRECAUTIONS:** Keep out of reach of children. Do not puncture or incinerate container.

IX - Transportation Information (ground transportation only)

DOT ID NUMBER: None**DOT PROPER SHIPPING NAME:** Consumer Commodity**DOT CLASS:** ORM-D**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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