

MATERIAL SAFETY DATA SHEET

Total Solutions
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GENERAL INFORMATION NUMBER: (414) 354-6417
CHEMTREC: (800) 424-9300

REVISION DATE: September 13, 2005
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I - Product Identification

Glass Cleaner Concentrate

PRODUCT CODE: 0201

CHEMICAL FORMULATION: Water based glass cleaner.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

<u>SUBSTANCE</u>	<u>APPROX</u>	<u>OSHA</u>	<u>ACGIH</u>	<u>EPA 40 CFR:</u>			<u>CAS #</u>
	<u>%</u>	<u>PEL</u>	<u>TLV</u>	<u>302</u>	<u>355</u>	<u>372</u>	
Contains no hazardous components as defined in 29 CFR 1910.1200							

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): N/D SPECIFIC GRAVITY (WATER = 1): 1.00
VAPOR PRESSURE (mm Hg): N/D VOC CONTENT (% by weight): <1.00
VAPOR DENSITY (AIR = 1): N/D EVAPORATION RATE (WATER = 1): ~1.0
SOLUBILITY IN WATER: Soluble pH: N/D
APPEARANCE AND ODOR: Clear, light blue liquid, grapefruit odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): None (TEST METHOD):
FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: N/A LOWER: N/A
EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters must be equipped with full protective gear including self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARD: None

V - Reactivity Data

STABILITY: Stable**INCOMPATIBILITY:** Strong acids**CONDITIONS TO AVOID:** None**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may yield oxides of carbon and ammonia.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None

VI - Health Hazard Data

ROUTES OF ENTRY **INHALATION:** **EYE CONTACT:** X **SKIN CONTACT:** X **INGESTION:** X
INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None.**EFFECTS OF OVEREXPOSURE****IF IN EYES:** May cause mild to moderate irritation and redness.**IF ON SKIN:** May cause irritation, dryness with prolonged or repeated contact.**IF SWALLOWED:** Gastrointestinal irritation, nausea, cramps, and diarrhea.**IF INHALED:** No effects expected when used as directed.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Obtain medical attention.**IF ON SKIN:** Wash thoroughly with water. If irritation persists, obtain medical attention.**IF SWALLOWED:** Contact physician or poison control center immediately. Rinse mouth with water. Drink 1 to 2 glasses of water. Do not induce vomiting unless told to do so by a physician or poison control center. Never give anything to an unconscious person.**IF INHALED:** Remove person to fresh air. Obtain medical attention, if irritation persists.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area and remove all sources of ignition. Contain spill. Soak up spilled material with inert absorbent material and place in a closed labeled container.**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: None.**VENTILATION****LOCAL:** Recommended**MECHANICAL:** Not required**PROTECTIVE GLOVES:** None required under normal use, otherwise chemically resistant gloves.**EYE PROTECTION:** None required under normal use, otherwise safety glasses.**OTHER PROTECTIVE EQUIPMENT:** None**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away. Keep container tightly closed when not in use.**OTHER PRECAUTIONS:** Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT PROPER SHIPPING NAME: None**DOT CLASS:** None**DOT ID NUMBER:** None**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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