

# MATERIAL SAFETY DATA SHEET

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

REVISION DATE: October 31, 2003  
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## I - Product Identification

### Glass Cleaner Concentrate #2

PRODUCT CODE: 0201

CHEMICAL FORMULATION: Alcohol based cleaner.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 1 FLAMMABILITY: 3 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 #
	%	PEL	TLV	302	355	372	
Methanol	1.00-5.0	200 ppm	200 ppm	Y	N	Y	67-56-1
2-Butoxyethanol	1.00-5.0	25 ppm (skin)	25 ppm (skin)	N	N	Y	111-76-2
Isopropanol	75.0-80.0	400 ppm	400 ppm	N	N	N	67-63-0

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): 0.816  
VAPOR PRESSURE (mm Hg): N/D VOC CONTENT (% by weight): 70.0-80.0  
VAPOR DENSITY (AIR = 1): N/D EVAPORATION RATE (WATER = 1): > 1.0  
SOLUBILITY IN WATER: Soluble pH: N/A  
APPEARANCE AND ODOR: Clear, light blue liquid; alcohol odor.

## IV - Fire and Explosion Hazard Data

FLASH POINT (°F): < 70 (TEST METHOD): Closed cup  
FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: N/A LOWER: N/A  
EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical  
SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Fire fighters must be equipped with full protective gear including self-contained breathing apparatus.  
UNUSUAL FIRE AND EXPLOSION HAZARD: Product can release vapors that form flammable mixtures at temperatures at or above the flashpoint.

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**V - Reactivity Data**

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**STABILITY:** Stable**INCOMPATIBILITY:** Strong oxidizing agents.**CONDITIONS TO AVOID:** Excess heat and open flame.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may yield oxides of carbon.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None

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**VI - Health Hazard Data**

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**ROUTES OF ENTRY**      **INHALATION:** X      **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:** Moderate irritation and redness. May injure eye tissue if not removed promptly.**IF ON SKIN:** Irritation and dermatitis with prolonged or repeated exposure.**IF SWALLOWED:** May be harmful or fatal if swallowed. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.**IF INHALED:** Irritation to upper respiratory tract, dizziness, headaches, CNS effects.**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:** Remove contaminated clothing and launder separately before reuse. Wash thoroughly with soap and water. If irritation persists, obtain medical attention.**IF SWALLOWED:** Contact physician or poison control center immediately. Do not induce vomiting unless directed to do so by a poison control center or doctor. Keep person at rest.**IF INHALED:** Remove person to fresh air. Administer artificial respiration if breathing has stopped. Obtain medical attention.

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**VII - Spill or Leak Protection**

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

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**VIII - Special Protection Information**

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**RESPIRATORY PROTECTION:** Use with adequate ventilation. 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:** Chemical goggles or safety glasses.**OTHER PROTECTIVE EQUIPMENT:** Eye wash station.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away from heat or open flame. Keep container tightly closed when not in use.**OTHER PRECAUTIONS:** Keep out of reach of children.

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**IX - Transportation Information (ground transportation only)**

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**DOT PROPER SHIPPING NAME:** Compounds, cleaning liquid (Isopropanol)**DOT CLASS:** 3**DOT ID NUMBER:** NA1993**DOT PACKING GROUP:** II

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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