

MATERIAL SAFETY DATA SHEET



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Rochester NY 14621
Information: 585-336-2200

Emergency Phone:
INFOTRAC: 1-800-535-5053
OUTSIDE US: 1-352-323-3500

PRODUCT NAME: REFLECTION, Glass Cleaner Concentrate

REVISION DATE: 07/27/2000 REVISION NUMBER: 1
DATE PRINTED: 03/13/2002 PREPARED BY: Walter Friedlander

1. CHEMICAL PRODUCT

MSDS FORM NUMBER: 7167
NFPA/HMIS HAZARD CODES (minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 2/2
Fire: 3/3
Reactivity: 0/0
Special/Protective None/B
Equipment:

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

PRODUCT COMPOSITION CAS REGISTRATION NO.	APPROX. WEIGHT PERCENT	ACGIH TLV	ACGIH UNIT	OSHA PEL	OSHA UNIT
Ethylene glycol butyl ether 111-76-2	72.8	NA	NA	50	PPM
Isopropanol 67-63-0	20 - 25	400	PPM	400	PPM
Octoxynol 9002-93-1	1 - 5	NA	NA	NA	NA

3. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F): 150 F (C) NA
VAPOR PRESSURE: 33 mm Hg @ 68 F (Isopropanol)
VAPOR DENSITY (AIR=1): > 2
SOLUBILITY IN WATER: COMPLETE
SPECIFIC GRAVITY: 0.875 +/- 0.005
VOC Content (%): 97
EVAPORATION RATE: < (BuAc =1) : 1.26
PH: NA
APPEARANCE AND ODOR: Clear, blue liquid. Mild fragrance. Mild glycol ether odor.

4. FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT (F): 76 F (TCC) 90 F (COC) (C): NA

METHOD: TCC COC

FLAMMABLE LIMITS IN AIR - LOWER (%): 12%

FLAMMABLE LIMITS IN AIR - UPPER (%): 20%

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemicals, Foam.

FIRE FIGHTING PROCEDURES: Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed containers with water spray. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.

5. STABILITY AND REACTIVITY

STABILITY DATA: STABLE

POLYMERIZATION: Will Not Occur.

HAZARDOUS DECOMPOSITION: Incomplete combustion produces: Fumes. Smoke. Carbon Monoxide.

INCOMPATIBILITY (MATERIALS TO AVOID): Acids. Alkalines. Strong oxidents, such as nitric acid, peroxides, or hypochlorites.

CONDITIONS/HAZARDS TO AVOID: Keep away from heat, sparks and flame. Welding arcs.

6. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION:

May be harmful if swallowed.

SKIN CONTACT:

May cause mild skin irritation. Harmful if absorbed through the skin.

INHALATION:

May be harmful if inhaled. Inhalation of vapors or mists may cause nose and respiratory irritation, sore throat, and coughing. Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

EYE CONTACT:

Causes moderate eye irritation. Causes redness and tearing.

CHRONIC EFFECTS:

Acute lethal exposures in animal studies have resulted in congestion of organs including kidney, spleen, and lungs. Overexposure to this material (or component) has apparently

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been found to cause the following effects in laboratory animals: blood abnormalities, mild reversible liver effects, mild reversible kidney effects.

EFFECTS/CARCINOGENICITY:

Contains materials known to cause cancer, birth defects, and other reproductive harm.

CARCINOGENIC INGREDIENTS:

Ethyleneoxide.

ROUTES OF ENTRY:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

EMERGENCY AND FIRST AID MEASURES:

INGESTION: DO NOT INDUCE VOMITING. May cause aspiration pneumonia. Drink several glasses of water or milk. Get immediate medical attention. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention if irritation or burns develop. **INHALATION:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention. **EYES:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

NOTES TO PHYSICIAN: None.

7. HANDLING AND STORAGE

SPILL PROCEDURES:

SMALL SPILLS: Rinse down drain.

LARGE SPILLS: Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush remainder with water. Releases of some glycol ethers may be CERCLA reportable.

WASTE DISPOSAL METHODS:

Dispose in accordance with Federal, State and Local regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

DANGER: Flammable liquid and vapor. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapors. Store only in original container and keep closed. Store in a cool, dry area. Store in a well ventilated area. Keep container closed when not in use. Keep from freezing.

OTHER PRECAUTIONS:

Do not reuse container. Empty containers may retain product residue, follow MSDS/label precautions even after container is emptied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS:

Use in a well ventilated area.

RESPIRATORY PROTECTION:

Not normally required. If product is used in a manner which creates dust or mist above recommended exposure limits, a NIOSH/MSHA approved respirator with dust/mist filter may be needed in the absence of proper environmental

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PROTECTIVE GLOVES:	controls. Chemical resistant gloves. Neoprene. Nitrile gloves. Rubber gloves.
EYE PROTECTION:	Safety Glasses. Goggles.
OTHER PERSONAL PROTECTION EQUIPMENT:	Rubber boots. Appropriate protective clothing as needed to prevent skin contact. Eyewash fountains and safety showers must be easily accessible.
VENTILATION:	General mechanical and/or local exhaust as needed to meet exposure limits if mist in air.

Health and safety information presented on this form is generally applicable at recommended dilutions, varying only in degree. This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

***** END OF MSDS *****