

MATERIAL SAFETY DATA SHEET
M.S.D.S.

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I: PRODUCT IDENTIFICATION INFORMATION

TRADE NAME (as labeled): EARTHSAFE GLASS AND MIRROR CLEANER
(Concentrated)

Chemical Name:

Chemical Family:

Formula: Aqueous solution (Proprietary)

Synonyms:

EMERGENCY CONTACT: CHEMTREC 1-800-424-9300

MANUFACTURER'S NAME: NACCO/ NATIONAL RESEARCH & CHEMICAL
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Date Prepared: January 2003

Department of Transportation: (SHIPPING INFORMATION)

Hazardous Classification: Non- Regulated

Shipping Name: Chemical N.O.S.

Dot Class: Class 55

Packing Group: N/A

UN/NA Number: None

II: PHYSICAL PROPERTIES

Vapor Density (air = 1): >1

Specific Gravity (H₂O=1): 1.010

Solubility in Water: Complete

Odor: Slight Lemon Scent

Appearance: Clear Blue liquid

Vapor Pressure (at 20°C): Negligible

Boiling Point/Range: Greater than 200°F

Evaporation Rate: Same as water

pH (of 1% solution): 1.40 (concentrated)

III: COMPOSITION INFORMATION

<u>COMPONENTS</u>	<u>CAS#</u>
DI Water	7732-18-5
Isopropanol	67-63-0
Cleaning Agents	2235-54-3
Non-ionic Surfactant	9016-45-9

IV: POTENTIAL HEALTH HAZARD DATA

EFFECTS OF ACUTE OVER- EXPOSURE:

Eye Contact: Contact with eyes is irritating and painful.

Skin Absorption: Prolonged or repeated contact with skin could cause irritation.

Inhalation: Spraying or mist caused by using this product could cause irritation.

Skin Contact: Product may cause irritation with repeated long-term use.

Effect of Repeated Exposure: Unnecessary exposure to this product or any chemical should be avoided.

Swallowing: Can and will cause nausea, dizziness and headache, irritation to mouth, throat and stomach.

Other Health Hazards: None currently known.

V: FIRST AID EMERGENCY PROCEDURES

Eye Contact: Flush with plenty of water for at least 15 minutes if irritation continues, contact physician at once.

Skin Contact: Wash with plenty of soap and water, remove contaminated clothing and clean before reuse. If irritation continues or develops contact a physician.

Inhalation: Remove immediately too fresh air, give oxygen if necessary.

Swallowed: Contact physician at once. Do not induce vomiting. If conscious, give 2 large glasses of water.

Other:

VI: FIRE AND EXPLOSION HAZARD DATA

Flash Point: Not a safety factor due to low volatility.

Flammable Limits: N/A

Lower: ___ **Upper:** ___

Extinguishing Media: **Water Spray:** X **Foam:** X
Carbon Dioxide: X **Dry Chemical:** X

Special Fire Fighting Procedures: Extinguish all sources of ignition. Wear self contained NIOSH approved breathing apparatus and protective clothing.

Unusual Fire/Explosion Hazard: Water run off from fire fighting may slippery.

Other:

VII: REACTIVITY DATA

Stability: **Stable:** X **Unstable:** ___

Conditions to Avoid: Do not expose to extreme heat, sparks or flames.

Incompatibility: Strong oxidizing agents or strong acids.

Hazardous combustion's or Decomposition Products: Not expected to occur

Hazardous Polymerization: **May Occur:** ___ **Will Not Occur:** X

VIII: SPILL, LEAK AND DISPOSAL PROCEDURES

Steps to be taken: Spilled material is slippery, use care to prevent falling. Contain all spills or leaks. Soak up with absorbent or towels, flush remaining area with plenty of water. Use in well - ventilated area. Product is biodegradable.

Preparing waste for disposal: Small spills may be flushed down the sewer or drain with water. Materials is inherently biodegradable. For large spills dike area and contain liquid by absorbing with sand or sawdust sweeping up compound and dispose in an approved landfill.

NOTE: DISPOSE OF ALL WASTE ACCORDING WITH FEDERAL, STATE AND LOCAL REGULATIONS.

Material Safety Data Sheet: EarthSafe Glass and Mirror Cleaner (concentrated)

IX: SPECIAL HANDLING INFORMATION

Respiratory Protection: None required

Ventilation: General room ventilation is satisfactory or fresh air.

Protective Gloves: Rubber or plastic, impervious gloves

Eye Protection: Safety goggles should be worn in chemical handling.

Other clothing and Equipment: Apron or lab coat.

Work practices, hygienic requirements: Avoid unnecessary personal contact. Wash hands thoroughly with soap and water after handling

Other handling and storage requirements: Avoid overheat or freezing.

Protective measures during maintenance of contaminated equipment: Provide Safety shower and eye bath.

X: OTHER INFORMATION

HMIS RATINGS CHART:

HMIS:

Health:	1	Flammability:	0
Reactivity:	0	Personal Protection:	B

XI: REGULATORY INFORMATION

SARA TITLE III - SECTION 311/312:

N- Fire Hazard
N-Sudden release of pressure hazard
N-Reactivity hazard
N-Immediate health hazard (acute)
Y-Delayed health hazard (chronic)

SARA TITLE III - SECTION 302/304:

This product does not contain extremely hazardous substances at levels, which could require reporting.

SARA TITLE III = SECTION 313:

This product does not contain toxic chemicals at levels, which require reporting.

OZONE - DEPLETING CHEMICALS:

None

CERCLA REPORTABLE QUANTITY:

None

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TSCA STATUS:

All components of these products are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

OSHA REGULATIONS:

Do not apply to this material or it's components. At levels which require reporting.

CALIFORNIA PROPOSITION 65:

This product does not contain chemicals known to the State of California to cause cancer.

CALIFORNIA SCAQMO RULE 443.1:

VOC - not applicable.