

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: SR 1102

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component Name</u>	<u>CAS #</u>	<u>% Range</u>
ethylene glycol	000107-21-1	< 55%
diethylene glycol	000111-46-6	< 10%

3. HAZARDS IDENTIFICATION

Effects of Overexposure

Eye Contact: can cause irritation and conjunctivitis. Permanent damage may result if not promptly treated.

Skin Contact: can cause irritation, sensitization and dermatitis. Absorption through skin may cause damage to kidneys and depression of central nervous system.

Inhalation: can irritate the nose, throat and lungs. May cause coughing, shortness of breath, nausea, vomiting, headache, dizziness, intoxication, nystagmus, and irregular eye movements. Prolonged and repeated overexposure to vapors may cause damage to kidneys, liver, lungs, blood or central nervous system.

Ingestion: can cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, lumbar pain, oliguria, uremia, irregular eye movements, convulsions, coma, cardiac failure, pulmonary edema and kidney damage which may be fatal.

Medical Conditions Aggravated by Exposure: preexisting skin, eye, respiratory, kidney and liver disorders may be aggravated by exposure.

Other Information: Components of this product were reacted using ethylene oxide (EtO) .EtO may accumulate in the headspace of drums and bulk containers. However, the concentration of EtO in the headspace should not cause the OSHA 0.5 ppm action level for EtO exposure to be exceeded. EtO is listed as a potential carcinogen by OSHA, NTP and IARC. If the product is handled as recommended in this MSDS, the trace amounts of EtO are not expected to result in acute or chronic hazards. EtO is a substance known to the State of California to cause cancer and/or reproductive toxicity. EtO is regulated under the Safe Drinking Water and Toxics Enforcement Act of 1986 (Proposition 65).

4. FIRST AID MEASURES

Emergency and First Aid Procedures

SKIN: Wash with soap and water. Remove contaminated clothing and launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.

EYES: Flush eyes immediately with large amounts of water for at least 15 minutes. Lift lower and upper lids occasionally. Get medical attention.

INHALATION: Remove victim to fresh air. Give artificial respiration if not breathing. If breathing is difficult, administer oxygen. Keep person warm, quiet and get medical attention.

INGESTION: Call a physician immediately. Give victim a glass of water. Do NOT induce vomiting unless instructed by a physician or poison control center. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point {Test Method} : > 200 Deg. F TCC

Extinguishing Media: This material is non-combustible. If this material is involved in a fire, use an extinguishing agent appropriate to surrounding materials. Water spray may be used to cool containers of this material exposed to a fire. Fire extinguishing materials should be collected for determination of proper disposal.

Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing apparatus with a full face-piece operated in the pressure-demand or positive-pressure mode.

Unusual Fire and Explosion Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Steps to be Taken if Material is Released or Spilled: Persons not wearing suitable personal protective equipment should be excluded from area of spill until clean-up has been completed. Shut off source of spill if possible to do so without hazard. Prevent material from entering sewers or watercourses. Provide adequate ventilation. Contain spilled material with sand or earth. Recovered undamaged or minimally contaminated material for reuse or reclamation. Place all collected material and spill absorbents into DOT approved containers.

7. HANDLING AND STORAGE

Precautions to be Taken in Handling and Storing: Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded, an NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure organic vapor type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

Ventilation: The use of mechanical dilution ventilation is recommended whenever this product is used in confined spaces, is heated above ambient temperatures or is agitated. When applicable, sufficient local ventilation should be provided to maintain employee exposures below safe working limits (TWA's).

Protective Gloves: Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)

Eye Protection: Chemical splash goggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions. The use of contact lenses is not recommended.

Other Protective Equipment: Eye wash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

These data do not represent technical or sales specification

Appearance : Clear yellow liquid

Sp. Gr. @ 15.6°C: 1.00 – 1.15

KV @ 40 °C: 2.0 – 8.0 cSt

Pour Point: Below -18°C

pH : 6 -11

Abbreviations: N.D. – Not Determined
 N.A. - Not Applicable

10. STABILITY

Stable (Y=Yes/N=No): Yes

Stability - Conditions to Avoid: None known.

Incompatibility (Materials to Avoid): Avoid contact with strong oxidizing agents, strong alkalis, and strong mineral acids.

Hazardous Decomposition Products: Smoke, carbon dioxide, carbon monoxide, oxides of nitrogen.

Hazardous Polymerization May Occur(Y=Yes/N=No) : N

Hazardous Polymerization --Conditions to Avoid: None

11. TOXICOLOGICAL INFORMATION

Toxicological Data: RTECS: ND

Carcinogenicity: ND

12. ECOLOGICAL INFORMATION

Mobility: ND

Biodegradation: ND

Bioaccumulation: ND

Aquatic toxicity: ND

Further information: None

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Treatment, storage, transportation and disposal must be in accordance with EPA or State regulations under authority of the Resource Conservation and Recovery Act (40 CFR 260-271).

14. TRANSPORT INFORMATION

Proper shipping name	: ND	IMDG Code Page	: ND
UN-No.	: ND	Class	: ND
Packing	: ND	EMS No.	: ND
MBPT Category	: ND		

