



# MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.  
Avon, New York 14414  
(716) 226-6177

MSDS No. GG 120  
Effective Date March 3, 1999

## SECTION V HEALTH HAZARD DATA

GG 120

### Threshold Limited Value

As mist: TWA: 10 mg/m<sup>3</sup> - total dust/particulate (ACGIH 1992-93).

### Effects of Overexposure

**INGESTION:** Very low hazard. Estimating from data, the lethal dose for a 100 pound person may be a quart or more. **EYE CONTACT:** No significant irritation. **SKIN:** No significant irritation. Not absorbed through skin. **INHALATION:** Mists are irritating to respiratory tract.

### Emergency and First Aid Procedures

**EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Flush with water. **INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention. **INGESTION:** If swallowed, if ill effects develop, get medical attention. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Absorbs moisture from air. Excessive temperature and heat.
	Stable	X		

Incompatibility (Materials to Avoid)	Oxidizing agents. (Sodium hypochlorite, Hypochlorous acid, Nitric acid, Potassium chlorate, Chromium trioxide, etc.)
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Hazardous Decomposition Products	Acrolein.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
Avoid a condition of excessive heat (in excess of 200°C) while exposed to atmospheric oxygen.	

## SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	<p><b>Small spills:</b> Flush to sewer with copious amounts of water.</p> <p><b>Large spills:</b> Absorb in sand, vermiculite or other available material and place in a suitable container for disposal by incineration.</p>
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
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Dispose of in an approved incinerator or contract with a licensed waste disposal service.

## SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling at room temperature and a liquid state.		
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Ventilation	Local Exhaust	None needed.	Special	No.
	Mechanical (General)	None needed.	Other	No.

Protective Gloves	None needed.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Smock, apron, eye wash station, goggles, fire extinguisher.
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## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from strong oxidizers and fire hazards. Wash thoroughly after handling.
Keep container tightly closed when not in use.	

Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 6	Date 3/3/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	GLYCERIN	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	1	Fire	1	Reactivity	0
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	1																	
Fire	1																	
Reactivity	0																	
Chemical Synonyms	Glycerol, 1, 2, 3-Propanetriol																	
Formula	CH <sub>2</sub> OHCHOHCH <sub>2</sub> OH																	
Unit Size	up to 20 Lt.																	
C.A.S. No.	56-81-5																	

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Glycerin: (CAS No. 56-81-5)	96-100%	See Section V.
Glycerin is not a hazardous or toxic material. It is included on the - GRAS List (generally recognized as safe).		

## SECTION III PHYSICAL DATA

Melting Point (°F)	18°C (64°F)	Specific Gravity (H <sub>2</sub> O = 1)	1.2607 (25/25°C)
Boiling Point (°F)	Decomposes 290°C (554°F)	Percent Volatile by Volume (%)	Negligible at room temp.
Vapor Pressure (mm Hg)	<1.0 @ 20°C	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	3.17		
Solubility in Water	Complete (100%).		
Appearance & Odor	Clear, water white liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	390°F (199°C) PMCC	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Carbon dioxide (CO <sub>2</sub> ); dry chemical (ABC); water spray.				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials. Contact with strong oxidizing agents such as chromium trioxide, potassium chlorate, or potassium permanganate may produce explosion.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20