

**SECTION I**

MANUFACTURER'S NAME <p align="center">NASCO</p>		EMERGENCY TELEPHONE NO. <p align="center">414/563-2446</p>
ADDRESS (Number, Street, City, State, and ZIP Code) <p align="center">901 Janesville Ave., Fort Atkinson, Wisconsin 53538</p>		
CHEMICAL NAME AND SYNONYMS Ethylene glycol; 1,2-ethanediol		TRADE NAME AND SYNONYMS NASCO-GUARD
CHEMICAL FAMILY Glycols	FORMULA 25% ethylene glycol-water	solution

**SECTION II - HAZARDOUS INGREDIENTS**

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Preservatives:					
Formaldehyde (always present)				0.5	
Phenol (may be present)				0.5	

**SECTION III - PHYSICAL DATA**

BOILING POINT (°F.) (at Sea Level)	214	SPECIFIC GRAVITY (H <sub>2</sub> O=1) (at 70° F)	1.033
VAPOR PRESSURE (mm Hg.) (at 70° F)	19	PERCENT VOLATILE BY VOLUME (%)	nil
VAPOR DENSITY (AIR=1) (100% glycol)	2.14	EVAPORATION RATE (butyl acetate =1)	< 0.01
SOLUBILITY IN WATER	complete		
APPEARANCE AND ODOR Colorless, sweet tasting, liquid with mild odor			

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA** Lower Upper

FLASH POINT (Method used) (ASTM=D92) 240 F. for 100% ethylene glycol	FLAMMABLE LIMITS % Volume in air	Lel	Uel	
		3.2	15.3	
EXTINGUISHING MEDIA For 100% ethylene glycol use water spray, dry chemical or universal				
SPECIAL FIRE FIGHTING PROCEDURES NONE			foam	
UNUSUAL FIRE AND EXPLOSION HAZARDS NONE				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE  
For Vapors - 50 ppm, for particles - 10mg/m<sup>3</sup>

EFFECTS OF OVEREXPOSURE  
Swallowing-abdominal pain, dizziness, lumbar pain, central nervous system depression inhalation-irritation of throat, headache, eye contact-mist may irritate eyes.

EMERGENCY AND FIRST AID PROCEDURES  
Swallowing-if conscious, induce vomiting, call physician immediately.  
Inhalation - remove to fresh air  
Eyes - Flush with water

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	-----

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS  
Burning may produce carbon monoxide and /or carbon dioxide

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	NONE

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
Flush small spills with water  
collect larger spills for disposal

WASTE DISPOSAL METHOD  
100% glycol may be mixed with flammable solvent and burned in a furnace where Federal, State and local regulations permit.  
Glycol-treated specimens may be incinerated.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)  
Air-supplied mask in high vapor concentrations

VENTILATION	LOCAL EXHAUST Needed where concentrated vapors are vented	SPECIAL
	MECHANICAL (General) General room ventilation is adequate for dissection	OTHER

PROTECTIVE GLOVES  
Not necessary for handling specimens

EYE PROTECTION  
not necessary for viewing specimens

OTHER PROTECTIVE EQUIPMENT  
None

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

DO NOT DRINK LIQUID

OTHER PRECAUTIONS

NONE