

Section 1 – PRODUCT AND COMPANY INFORMATION

Manufacturer	IMS Company 10373 Stafford Road Chagrin Falls, OH 44023-5296	Emergency Phone Office Phone Prepared by Prepared/Revised E-mail	800-424-9300 440-543-1615 Product Safety Advisor November 21, 2007 sales@imscompany.com
	WEB: imscompany.com		

Item Number	Description	Size
105580	EG-17 Inhibited Ethylene Glycol	5 gallon pail
105584	EG-17 Inhibited Ethylene Glycol	55 gallon drum

Section 2 - Physical Data (undiluted)

Boiling point: 760 mm Hg:.....328°F (± 5°) Vapor Pressure:760 mm Hg:<1 @ 68°F
Vapor Density:(Air = 1):> 1 Specific Gravity:(H₂O = 1): 1.12 – 1.13
Evaporation Rate:(Butyl Acetate = 1) .<1 Solubility in Water: Complete
PH.....8.5 – 10.5
Appearance and Odor:clear, yellow-green liquid, mild odor.

Section 3 – HAZARDOUS INGREDIENTS

Chemical/Common Name	CAS-Number	%	PEL-OSHA	TLV-ACGIH
Ethylene Glycol	107-21-1	<96	125 mg/m ³	100 mg/m ³
Corrosion Inhibitors	proprietary	<1 each	NE	NE

No rated carcinogen by NTP, IARC or not by OSHA

Section 4 – HMIS Ratings

Health 1	Flammability 1	Reactivity 0	Protection X
0 Normal use Material	0 Will Not Burn	0 Stable	X = Consult the
1 Slight Hazard (temporary)	1 Possible to Burn	1 Unstable if Heated	MSDS and
2 Health Affected (lengthy)	2 Burns if Heated	2 Violent Chemical Change	your supervisor
3 Extreme Danger	3 Easily Burns	3 Shock and Heat Sensitive	for your special
4 Severe or Fatal	4 Very Easily Burns	4 May Explode	workplace need

* Chronic (Accumulates)

NOTE The HMIS may not be enough hazard information for this chemical in all workplaces. The HMIS system requires employee training about the system and about information in this MSDS.

Section 5 – Fire and Explosion Hazard Data

Flash Point (TCC)<265° F (129° C) – no flashpoint at concentration less than 90%
Flammable Limits.....not determined Autoignition temperature not determined
EXTREMELY FLAMMABLE LIQUID AND VAPOR VAPOR CAN CAUSE A FLASH FIRE

Extinguishing Media: This product is not combustible. Water spray, foam, carbon dioxide, or dry chemical may be used where this product is stored.

Special Fire Fighting Procedures: Wear full protective clothing and breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: None

Section 6 – HEALTH HAZARD DATA

Effects of Overexposure

Swallowing: May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, lumbar pain, oliguria, uremia and central nervous system effects, including irregular eye movements, convulsions and coma. Cardiac failure and pulmonary edema may develop. Severe kidney damage is possible and death may occur if more than a few (3) ounces of ethylene glycol are swallowed.

Skin Absorption: No evidence of harmful effects from available information

Inhalation: May cause irritation to the nose and throat with headache, particularly from mist. High concentrations of vapor, by heating the material in an enclosed and poorly ventilated workplace, may cause nausea, vomiting, headache, dizziness, and irregular eye movements.

Skin Contact: No evidence of harmful effects from available data.

Eye Contact: Injury to the cornea is not expected. Vapors may be moderately irritating, experienced as discomfort, excess blinking and tear production, with excess redness and swelling of the conjunctiva.

ROUTE OF ENTRY Eye contact, breathing, skin contact, skin absorption, swallowing.

TARGET ORGANS, MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Not fully known, however, the CNS, lung, eye, liver, GI tract, spleen, blood, and kidney could be affected by exposure. Preexisting skin and eye disorders could be aggravated by exposure to this type of product.

Emergency and First Aid Measures

EYES: Flush the solution out of the eyes immediately.

Flush the eyes with copious amount of water for at least 15 minutes while forcibly holding the eye lids apart. This will ensure adequate flushing of the entire surface area. Washing out the eyes within the first few seconds is essential to achieve maximum effectiveness. Seek medical attention if necessary.

SKIN: Wash the entire area contacted with plenty of water for a least 15 minutes. Remove contaminated clothing and footwear. Wash clothing before reuse and discard leather articles such as shoes and belts. Seek medical attention if necessary.

INHALATION: Remove individual to fresh air; if breathing is difficult have a trained individual administer oxygen. If respiration stops, give mouth to mouth resuscitation. Get immediate medical attention.

INGESTION: Never give anything by mouth to an unconscious person! If swallowed, give large quantities of water "INDUCE VOMITING". If vomiting occurs spontaneously, keep airway clear. Get immediate medical attention.

Routes of Exposure:

Inhalation: Airborne concentrations of mist or spray may cause damage to the upper respiratory tract and lung tissue.

Skin: This product may cause skin irritation. A latent period may exist between exposure and sense of irritation.

Eye Contact: This product may irritate eye tissue on contact.

Ingestion: This product may cause abdominal discomfort.

Section 7 – REACTIVITY DATA

***Conditions to avoid:** None

Stability: () Unstable
(X) Stable

Incompatibility (materials to avoid): Strong oxidizers, acids.

Hazardous Decomposition Products: Burning can produce carbon monoxide and/or carbon dioxide

Hazardous Polymerization: Will not occur

Section 8 - Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Small spills can be flushed with large amounts of water; larger spills should be collected for disposal. Wear protective clothing and equipment.

Waste Disposal Method: Neutralize and dispose of material in accordance with all applicable laws and regulations.

Section 9 - Special Protective Information

Respiratory Protection: NIOSH approved breathing air equipment or NIOSH approved respirator with an organic vapor cartridge and a dust or mist pre-filter.

Ventilation:

Local Exhaust: N/A
Mechanical (General): Normally adequate
Special: N/A
Other: N/A

Protective Gloves: Rubber or Neoprene

Eye Protection: Face Shield and Safety glasses

Other Protective Equipment: Rubber Apron, Rubber Boots, Safety-shower, and Eyewash Station.

Section 10 - DOT Shipping Information

Proper Shipping Name in Bulk Quantities (>5,000# as EG) or by Air:

Environmentally Hazardous Substance, Liquid, NOS (contains ethylene glycol).

Non-Bulk/Packaged material shipped Ground: Not Regulated

DOT Hazard Class: 9

UN/NA # 3082

Packing Group PG-III

Product RQ: Ethylene Glycol >5,000#

D.O.T Label: N/A

D.O.T Placard: Class 9

Section 11 - Special Precautions

Precautions to be taken when handling and storing this product: Keep containers closed when not in use and wash hands immediately after each use of this product. DO NOT GET IN EYES, DO NOT SWALLOW, AVOID BREATHING MISTS. ALWAYS WEAR FULLY PROTECTIVE CLOTHING AND EQUIPMENT WHILE HANDLING.

DANGER: HARMFUL AND/OR FATAL IS SWALLOWED.

Section 12 - SARA Title III

This product contains the following toxic chemicals that are claimed as a trade secret, but disclosed as an upper bound concentration to comply with the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR Part 372.

Ethylene Glycol – CAS 107-21-1 (< 96%)

Section 13 - Section Revisions

none

NOTE: The information contained herein is believed to be true and accurate at this time. However, there is no guarantee expressed or implied. Since the use of this information and the conditions for the use of the product are not under the control of Bonded Chemical, Incorporated it is the user's obligation to determine conditions for the safe use of this product. The physical data contained in this article has been calculated and taken from available data.