



INDIA GLYCOLS LTD

MATERIAL SAFETY DATA SHEET

MSDS No.

E-07

ETHYLENE GLYCOL MONOETHYL ETHER

Effective from

01-09-01

01:	CHEMICAL IDENTITY					
	Chemical Name	ETHYLENE GLYCOL MONOETHYL ETHER		Trade Name	IGSOL-12026E	
	FORMULA	C ₄ H ₁₀ O ₂		Chemical Classification	Not Available	
	U.N. No.	1171		C.A.S. No.	110- 80 -5	
	Synonyms	2-Ethoxyethanol, Ethyl glycol, cellosolve, Mono ethyl glycol ether				
	Regulated Identification					
	Shipping Name	Ethylene Glycol Mono Ethyl Ether		Haz.Waste ID No.	Not Available	
	Code/Label	3		HAZCHEM CODE	2 S	
	HAZ. INGREDIENTS	C.A.S. NO.		HAZ. INGREDIENTS	C.A.S. NO.	
	Ethylene Glycol Mono Ethyl Ether	110-80-5		--	--	
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02:	PHYSICAL /CHEMICAL DATA					
	Boiling Pt/Range	135°C	Physical State	Liquid	Appearance	Clear colourless liquid
	Melting /Freezing Point	- 100°C	Vapour Pressure mm Hg @ 35° C	3.8mm Hg at 20 ° C	Odour	Ether-like, mild pleasant odour
	Vapour Density (Air = 1)	3.1	Solubility in Water at 20 ° C	Soluble	Others	Soluble in ethanol and acetone at 20 ⁰ C
	Specific Gravity (Water = 1)	0.93 g/cm ³	pH	Neutral		
03:	FIRE / EXPLOSION HAZARD DATA					
	Flammability	Yes	LEL %	1.8	Flash Point °C (OC)	Not Available
	TDG Flammability	Not Listed	UEL %	15.7	Flash Point °C (CC)	44
	Auto Ignition Temp. °C	235	Oxidiser	No	Explosive material	No
	Explosion sensitivity to impact	Stable	Combustible liquid	Yes	Corrosive material	No
	Explosion sensitivity to static electricity	Data not available	Flammable material	Yes	Organic Peroxide	No
	Hazardous combustible products	Emits acrid smoke and irritating fumes.	Pyrophoric material	No	Hazardous Polymerization	Will not occur
04:	REACTIVITY DATA					
	Chemical Stability	Heating condition to be avoided. Stable under ordinary condition of use and storage.				
	Incompatibility with other materials	With copper, light metals and their compounds. Substances to be avoided strong acid, strong base, Aluminum, bases, oxidizing agents, air (formation of peroxides).				
	Reactivity	Explosible with air in a vapours/ gaseous state when heated.				
	Hazardous reaction products	Carbon dioxide and carbon mono oxide may form when heated to decomposition, Peroxides.				
05:	HEALTH HAZARD DATA					
	Routes of entry	Inhalation, Ingestion, skin & Eyes.				
	Effects of . Exposure/ Symptoms	May impair fertility. Avoid exposure of pregnant woman. Harmful by inhalation, irritations of the mucous membranes, coughing and dyspnoea. In contact with skin danger of skin absorption. In contact of eyes causes irritations and blurred vision. Ingestion causes nausea and vomiting Obtain special instructions before use.				
	Emergency Treatment	INHALATION: Take the victim to fresh air, if necessary apply mouth-to-mouth resuscitation or mechanical ventilation. INGESTION: If victim is still conscious, make him drink plenty of water, induce vomiting, administer activated charcoal (20-40 gm in 10% slurry). SKIN & EYES: Flush with plenty of water for 15 mins. Remove contaminated clothing. Rinse out with plenty of water with eyelid held wide open. Seek medical aid immediately.				

	LD50(Oral-Rat)	2125 mg/kg	STEL	20PPM	75 mg/m ³
	Permissible Exposure Limit	Not Listed	Odour Threshold	Odourless.	
	TLV(ACGIH)	5 PPM/ 18 mg/m ³ (TWA)			
		Skin			
	NFPA Hazard Signals	Health 2	Flammability 2	Reactivity 3	Special --
06:	PREVENTIVE MEASURES				
	Personnel	Avoid contact with Liquid or vapours. Use Organic vapours CAMFO and CABA set.			
	Protective Equipment	Provide safety goggles, hand gloves, apron and facilities for shower and eye - bath near by.			
	Handling & Storage	Keep the container tightly closed. Store in dry, well - ventilated place at +15 ^o C to +25 ^o C.			
	Precautions	Keep away from sources of ignition and heat. Accessible only for authorised persons.			
07:	EMERGENCY / FIRST AID MEASURES				
	FIRE	Fire Extinguishing Media	Water Fog, Foam, CO ₂ , and Dry Chemical Powder.		
		Special Procedures	Keep the containers cool by spraying water if exposed to heat or fire.		
		Unusual Hazards	Vapours heavier than air. Formation of explosible mixtures possible with air. Take measures to prevent electrostatic charging. Do not stay in dangerous zone without suitable chemical protective clothing and self-contained breathing apparatus.		
	EXPOSURE	First Aid Measures	INHALATION: Take the victim to fresh air, if necessary apply mouth-to-mouth resuscitation or mechanical ventilation. INGESTION: If victim is still conscious, make him drink plenty of water, induce vomiting, administer activated charcoal (20-40 gm in 10% slurry). SKIN & EYES: Flush with plenty of water for 15 mins. Remove contaminated clothing. Rinse out with plenty of water with eyelid held wide open. Seek medical aid immediately.		
		Antidotes/Dosages	N/A		
	SPILLS	Steps To Be Taken	Shut off leaks if without risk. Drench with water. Do not inhale vapours/ aerosols. Avoid substance contact.		
		Waste Disposal Method	Take up with liquid-absorbent material (chemizorb), forward for disposal. Clean up affected area.		
08:	ADDITIONAL INFORMATION/REFERENCES				
	Flammable liquid and vapour may form explosive peroxides in air. May produce a float in fire hazard in extreme fire condition. Sensitive to static charge. Harmful if swallowed inhaled or absorbed through skin cause irritation to eyes and respiratory tract. Affects central nervous system, blood and blood forming organs, reproductive system, liver and kidneys. Possible birth defect hazard. May cause birth defect based on animal data.				
09:	MANUFACTURES/SUPPLIERS DATA				
	Name of Firm	M/S INDIA GLYCOLS LTD.	Contact Person in Emergency	Shift I/C (Fire & Safety)	
	Mailing Address	A-1, Ind. Area, Bazpur Road, Kashipur-244713, Uttaranchal (India).	Local Bodies Involved	Not Pertinent	
	Telephone/Telex Nos.	91-5947-75320	Standard Packing	195 Kg Drum / Road tankers	
	Telegraphic Address	GLYCOLS	Trem Card Detail/Ref.	Not Pertinent	
	Fax No.	91-5947-75315			
10:	DISCLAIMER				
	Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is upto the manufacturer/seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured /handled or sold by him as the case may be. The IGL makes no warrantees expressed or implied in respect of the adequacy of this document for any particular purpose.				

PREPARED BY	JT. Manager (Fire & Safety)	Signature	
REVIEWED BY	S.H. (HSE)	Signature	
APPROVED BY	HOD (TECH.)	Signature	
ISSUE STATUS	00	EFFECTIVE FROM	01-09-01