Safety Data Sheet

Section 1. Identification		
Product Identifier	Ethylene Glycol 60%	**Version: 1** **Effective Date:2023/06/24**
Other Means Of Identification	None	
Initial Supplier Identifier	Discover Chemicals Corporation 7725 56 St SE, Unit 111 T 587 9684443	
Recommended Use and Restrictions On Use	Oilfield additive. No restrictions.	
Product Family	Blend	
24 Hour Emergency	Canutec (613) 996-6666	

Section 2. Hazard Identification	
Hazard Classification	
Health Hazard	Acute Toxicity – Category 4 Specific Target Organ Toxicity – Category 2 (oral)
Signal Word	Warning
Hazard Statement	Harmful if swallowed. May cause damage to organs (kidney) through prolonged or repeated exposure if swallowed.
Precautionary Prevention Statement	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection.
Precautionary Response Statement	IF SWALLOWED: call a Poison Center or doctor/physician if you feel unwell. Rinse mouth. If ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present or easy to do. Continue rinsing. Immediately call Poison Centre or doctor/physician. Wash contaminated clothing before reuse.
Precautionary Storage Statement	Store in well ventilated place.
Precautionary Disposal Statement	Dispose of contents/container to an approved waste disposal plant.
Other Hazards	None

Section 3. Composition / Information on Ingredients			
Chemical Name	**Common Name or Synonyms**	**CAS NO. and Other Unique Identifiers**	**% by weight**
Ethylene Glycol	N/A	107-21-1	60
Balance of ingredients are considered non-hazardous and constitute a proprietary blend			

Section 4. First-Aid Measures	
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Wash with water and soap.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Rinse mouth with water if conscious. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
Most Important Symptoms and Effects Both Acute and Delayed	May cause abdominal discomfort or diarrhea. Excessive exposure may cause central nervous system effects, cardiopulmonary effects (metabolic acidosis), and kidney failure.f in eyes – severe irritation and possible corneal injury.
Immediate Medical Attention and Special Treatment	If several ounces (60 - 100 ml) of ethylene glycol have been ingested, early administration of ethanol may counter the toxic effects (metabolic acidosis, renal damage). Consider hemodialysis or peritoneal dialysis & thiamine 100 mg plus pyridoxine 50 mg intravenously every 6 hours. If ethanol is used, a therapeutically effective blood concentration in the range of 100 – 150 mg/dl may be achieved by a rapid loading dose followed by a continuous ntravenous infusion. Consult standard literature for details of treatment. 4-Methyl pyrazole (Antizol®) is an effective blocker of alcohol dehydrogenase and should be used in the treatment of ethylene glycol (EG), di- or triethylene glycol (DEG, TEG), ethylene glycol butyl ether (EGBE), or ethanol intoxication if available. The signs and symptoms of poisoning include anion gap metabolic acidosis, CNS depression, renal tubular injury, and possible late stage cranial nerve involvement. Respiratory symptoms, including ulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. In severe poisoning, respiratory support with mechanical ventilation and positive end expiratory pressure may be required. Maintain adequate ventilation and oxygenation of the patient. If lavage is performed, suggest endotracheal and/or esophageal control.

Section 5. Fire-Fighting Measures	
Suitable and Unsuitable Extinguishing Media	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.
Hazardous Combustion Products	Oxides of carbon.

Specific Hazards Arising From the Product	During fire, smoke may contain the original material in addition to toxic and/or irritating gases (carbon monoxide).
Special Protective Equipment and Precautions For Fire-Fighters	Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Gloves, safety glasses and footwear suitable for workplace. Secure area. Surface might become slippery.
Environmental Precautions	Prevent from entering soil, ditches, sewer, waterways.
Methods and Materials For Containment and Clean-Up	Small spills – rinse with water. Large spills - Soak or pump up split material. Use clay, vermiculite or diatomaceous earth to soak up spilled material. Place in a suitable container for disposal. Wash area with soap and water to remove residues which can cause a slip hazard.

Section 7. Handling and Storage	
Precautions For Safe Handling	Wash skin thoroughly after handling.
Conditions For Safe Storage	Keep containers closed when not in use.

Section 8. Exposure Controls and Personal Protection				
Control Parameters	**TWA: 8 Hr**	**STEL: 15 min**	**Ceiling**	**IDLH ***
Ethylene Glycol	50ppm	100 ppm		
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	Ensure adequate ventilation. Ensure safety shower and eye wash station are available.			
Individual Protective Measures **Eye / Face Protection**	Safety glasses.			
Skin Protection	Nitrile gloves.			
Respiratory Protection	Should be worn when exposure limits are exceeded. The following should be effective types of air-purifying respirators. Organic vapor cartridge.			

Section 9. Physical and Chemical Properties

Appearance	Colourless liquid
Odour	Faint
Odour Threshold	Not data
pH (1% solution)	7 - 9
Flash Point	>110 °C
Boiling Point and Boiling Range	Not data
Melting Point / Freezing point	-45 °C
Evaporation Rate	Not data
Flammability (solid, gas)	Not applicable
Upper and Lower Flammability or Explosive Limits	No data
Vapour Pressure	Not data
Vapour Density	Not data
Relative Density	1.07
Solubility	Fully miscible with water
Partition co-efficient, n-Octanol/Water	No data
Auto-ignition Temperature	Not available
Decomposition Temperature	No data
Viscosity	No data

Section 10. Stability and Reactivity	
Reactivity	Stable.
Chemical Stability	The product is stable
Possibility of Hazardous Reactions	Will not occur
Conditions to Avoid	None known
Incompatible Materials	Strong oxidisers.
Hazardous Decomposition Products	Not expected to decompose under normal conditions of use.

Section 11. Toxicological Information			
Component Toxicity	**LD50 Oral**	**LD50 Dermal**	**LC50 Inhalation**
Ethylene Glycol	7.70 g/kg(rat)	10.6 g/kg (rat)	6h, vapour > 2.5 mg/L
Likely Routes of Exposure			
Skin:	May cause irritation.		
Eyes:	May cause irritation.		
Inhalation:	None expected.		
Ingestion:	May cause diarrhea.		
Acute Toxicity Estimates (ATE)	Low toxicity if swallowed.		

STOT (Specific Target Organ Toxicity) – Single Exposure	Kidney
Aspiration Toxicity	Not classified
STOT (Specific Target Organ Toxicity) – Repeated Exposure	Not classified
Skin Corrosion / Irritation	May cause irritation
Serious Eye Damage / Irritation	Severe irritant
Respiratory or Skin Sensitization	None expected
Carcinogenicity	Not listed.
Reproductive Toxicity	
- **Sexual Function and Fertility**	Not classified.
- **Development of Offspring**	Not classified
- **Effects on or via Lactation**	Not classified
Germ Cell Mutagenicity	Not classified
Interactive Effects	None
Other Information	N/A

Section 12. Ecological Information	
Ecotoxicity	No data
Persistence and Degradability	Will not persist.
Bioacumulative Potential	Not expected to bio accumulate
Biodegradability	Readily degradable. >91% degradable in 28 days. OECD test guideline 301A.
Mobility in Soil	No data
Other Adverse Effects	N/A

Section 13. Disposal considerations	
Disposal Considerations	Dispose of contents / container in accordance with local regulations.

Section 14. Transport Information	
UN Number	None
UN Proper Shipping Name	None

Transport Hazard Class(es)	None
Packaging Group	None
Environmental Hazards	No
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	Not applicable

Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are on the Domestic Substances List (DSL)
TSCA	All components of this product are on the Toxic Substances Control Act (TSCA) Inventory List
Additional Information	None

Section 16. Other Information	
NFPA Rating	Health-1/ Flammability-1/Reactivity-1/Special Hazard-Not applicable
HMIS Rating	Health-1/Flammability-1/Reactivity-1/Personal Protection-See Section 8.
Prepared by:	Discover Chemicals Corporation, Technical Department
Date Prepared:	2023/6/24
Date of Latest Revision:	N/A