# SAFETY DATA SHEET

Revision date 10-August-2020

1. Identification			
Product identifier			
Product Name	ETHYLENE GLYCOL, REAGENT		
Other means of identification			
Product Code(s)	E1051		
Synonyms	None		
Recommended use of the chemical	and restrictions on use		
Recommended use	No information available		
Restrictions on use	No information available		
Details of the supplier of the safety data sheet			
Supplier Address Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000			

Emergency telephone number

**Emergency Telephone** 

Chemtrec 1-800-424-9300

# 2. Hazard(s) identification

#### **Classification**

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

Hazards not otherwise classified (HNOC)

Not applicable

Label elements Danger

Hazard statements

Harmful if swallowed Causes serious eye irritation Causes damage to organs Causes damage to organs through prolonged or repeated exposure



Revision Number 2



Physical state Liquid

Odor No information available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear eye protection/ face protection Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

IF exposed: Call a POISON CENTER or doctor IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other information

Causes mild skin irritation.

# 3. Composition/information on ingredients

#### **Substance**

Chemical name	CAS No	Weight-%	Trade secret
Ethylene Glycol	107-21-1	100	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

I. First-aid measures	
-----------------------	--

#### **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

Symptoms	May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.	
Indication of any immediate medical attention and special treatment needed		

Note to physicians Treat symptomatically.

# 5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
Specific hazards arising from the chemical	No information available.	
Hazardous combustion products	Carbon Monoxide, Carbon Dioxide.	
Explosion data Sensitivity to mechanical impact none.		
Sensitivity to static discharge	none.	
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.		
Other information	Refer to protective measures listed in Sections 7 and 8.		
Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		

# 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach
	of children. Store locked up.

# 8. Exposure controls/personal protection

#### Control parameters

Exposure Limits	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.		
Appropriate engineering controls			
Engineering controls	Showers Eyewash stations Ventilation systems.		
Individual protection measures, such as personal protective equipment			
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Hand protection	Wear suitable gloves.		
Skin and body protection	Wear suitable protective clothing.		
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.		
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.		

# 9. Physical and chemical properties

#### Information on basic physical and chemical properties

information on basic physical and c		
Physical state	Liquid	
Appearance	viscous	
Color	clear; colorless	
Odor	No information available	
Odor threshold	No information available	
Property	Values	Remarks • Method
pH	no data available	None known
Melting point / freezing point	-1311 °C / 8.6 - 12.2 °F	None known
Boiling point / boiling range	196 - 199 °C / 384.8 - 390.2	None known
Boning point / Boning range	°F	
Flash point	111 - 119 °C / 231.8 - 246.2 °F	None known
Evaporation rate	no data available	None known
Flammability (solid, gas)	no data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	15.3 %	
limits		
Lower flammability or explosive	3.2 %	
limits	5.2 /8	
	0.01 @ 20°C kPa	None known
Vapor pressure		
Vapor density	2.14	None known
Relative density	1.1151 - 1.1156	None known
Water solubility	No data available	None known
Solubility(ies)	Slightly soluble in Ether	None known
	Practically insoluble in Petroleum Ethe	er
	Practically insoluble in Benzene	

Partition coefficient Autoignition temperature	No data available no data available	None known None known None known
Decomposition temperature Kinematic viscosity	no data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	62.07	
VOC Content (%)	No information available	
Liquid Density	No information available	
Bulk density	No information available	

# 10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

# 11. Toxicological information

### Information on likely routes of exposure

Product Information	
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. Causes mild skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).
Symptoms related to the physical, o	chemical and toxicological characteristics
Symptoms	May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation.
Acute toxicity_	

Numerical measures of toxicity

#### **Component Information**

•••••••••••••••••••••••••••••••••••••••			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol	= 4700 mg/kg (Rat)	9530 µL/kg (Rabbit)	> 2000 mg/m <sup>3</sup> (Rat, 4 hr)

107-21-1		

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

May cause skin irritation. Classification based on data available for ingredients. Classification based on data available for ingredients. Causes serious eye irritation. No information available. No information available.
No information available.
Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs if swallowed. Causes damage to organs through prolonged or repeated exposure. respiratory system, Eyes, Skin, central nervous system.
No information available.
No information available.
No information available.

# 12. Ecological information

#### Ecotoxicity

ECOTOXICITY	•			
Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethylene Glycol 107-21-1	EC50: 6500 - 13000mg/L (96h, Pseudokirchneriella subcapitata)	( ,	-	EC50: =46300mg/L (48h, Daphnia magna)

Persistence and degradability Bioaccumulation

No information available. Inherently biodegradable.

#### **Component Information**

Chemical name	Partition coefficient
Ethylene Glycol	-1.93
107-21-1	

Other adverse effects

No information available.

# 13. Disposal considerations

### Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

# 14. Transport information

DOT	not regulated
<u>TDG</u>	not regulated
MEX	not regulated
ICAO (air)	not regulated
IATA	not regulated
IMDG_	not regulated
RID	not regulated
ADR	not regulated
ADN	not regulated

## 15. Regulatory information

#### International Inventories

**TSCA** 

Complies

DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	This product complies with ENCS:
IECSC	This product complies with China:
KECL	Complies
PICCS	Complies
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical
	Substances (AICS).

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

<u>CERCLA</u> This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ethylene Glycol	5000 lb final RQ	-
107-21-1	2270 kg final RQ	

#### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

<u>U.S. State Right-to-Know Regulations</u> This product does not contain any substances regulated under applicable state right-to-know regulations

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. Other information

NFPA Health hazards 3 Flammability 1 Instability 0 Physical and cher <u>HMIS</u> Health hazards 3 Flammability 1 Physical hazards Personal protection Chronic Hazard Star	mical properties	* = Chronic Health Hazard	,	
				– STEL (Short Term Exposure Limit)
<b>Key literature references and sources for data used to compile the SDS</b> Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA)				
EPA (Environment Acute Exposure G U.S. Environmenta	al Protection Agenc uideline Level(s) (A Il Protection Agency	cy)		nticide Act
Food Research Jo Hazardous Substa	urnal nce Database rm Chemical Inform	ation Database (IUCLID)		
Australia National I NIOSH (National Ir National Library of	Industrial Chemical Institute for Occupat Medicine's ChemIE	s Notification and Assess ional Safety and Health) 9 Plus (NLM CIP) d database (NLM PUBME	·	CNAS)
National Toxicolog New Zealand's Ch Organization for Ec Organization for Ec	y Program (NTP) emical Classificatio conomic Co-operati conomic Co-operati conomic Co-operati	n and Information Databa on and Development Env on and Development Hig on and Development Scr	ise (CCID) vironment, Health, h Production Volur	me Chemicals Program

Revision date Revision Note <u>Disclaimer</u> 10-August-2020 No information available.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### End of Safety Data Sheet