

Version: 1.4 Revision Date: 10/20/2022

SAFETY DATA SHEET

1. Identification

Material name: EUCEM CGA 5-2 Material: CGA 5-2

Recommended use and restriction on use

Recommended use: Additive Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110 US

Contact person: Telephone: Emergency telephone number:

EH&S Department 216-531-9222 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Oral)

Category 4

Unknown toxicity - Health

Acute toxicity, oral	11.46 %
Acute toxicity, dermal	7.2 %
Acute toxicity, inhalation, vapor	98.13 %
Acute toxicity, inhalation, dust	88.86 %
or mist	

Label Elements

Hazard Symbol:



Signal Word:

Hazard Statement:

Warning

Harmful if swallowed.



Precautionary Statements	
Prevention:	Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.
Response:	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
Hazard(s) not otherwise classified (HNOC):	None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Diethylene glycol	111-46-6	50 - <100%
Glycerine	56-81-5	5 - <10%
Ethylene glycol	107-21-1	0.1 - <1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures			
Description of necessary first-aid measures			
Inhalation:	Move to fresh air.		
Skin Contact:	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.		
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.		
Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.		
Personal Protection for First- aid Responders:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
Most important symptoms/effects, acute and delayed			

Symptoms: May cause skin and eye irritation.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed



5. Fire-fighting measures			
General Fire Hazards:	No unusual fire or explosion hazards noted.		
Suitable (and unsuitable) extingu	uishing media		
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.		
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.		
Special protective equipment an	d precautions for fire-fighters		
Special fire-fighting procedures:	No data available.		
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
6. Accidental release measures			
Personal precautions, protective equipment and emergency procedures:	No data available.		
Accidental release measures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.		
Methods and material for containment and cleaning up:	Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.		
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.		
7. Handling and storage			
Handling			
Technical measures (e.g. Local and general ventilation):	Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.		
Safe handling advice:	Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.Do not taste or swallow. Wash hands thoroughly after handling.		



Hygiene measures:	Do not eat, drink or smoke when using the product. Wash hands after handling. Observe good industrial hygiene practices.
Storage	
Safe storage conditions:	Store away from incompatible materials. Store in original tightly closed container.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Glycerine - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Glycerine - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Glycerine - Respirable particles.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as amended (01 2021)
Glycerine - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)
	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)
Glycerine - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)
Glycerine - Inhalable particles.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (01 2021)
Glycerine - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)
Ethylene glycol - Aerosol, inhalable.	STEL	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2017)
Ethylene glycol - Vapor fraction	TWA	25 ppm	US. ACGIH Threshold Limit Values, as amended (03 2017)
	STEL	50 ppm	US. ACGIH Threshold Limit Values, as amended (03 2017)



Chemical name	Туре	Exposure Limit Value	es	Source
Glycerine - Respirable mist.	TWA	3 m	ng/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Glycerine - Mist.	TWA	10 m	ng/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Glycerine - Inhalable particles.	TWA	10 m	ng/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
Glycerine - Respirable particles.	TWA	3 m	ng/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
Glycerine - Respirable fraction.	TWA	3 m	ng/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
Glycerine - Inhalable fraction.	TWA	10 m	ng/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)
Glycerine - Total mist	TWA	10 m	ng/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2021)
Ethylene glycol - Vapor.	CEILING	50 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Ethylene glycol - Aerosol.	CEILING	100 m	ng/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Ethylene glycol - Particulate.	TWA	10 m	ng/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	20 m	ng/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Ethylene glycol - Vapor and mist.	CEILING	50 ppm 127 m	ng/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Ethylene glycol - Aerosol, inhalable.	STEL	10 m	ng/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Additional Information: Use suitable protective gloves if risk of skin contact.
Skin and Body Protection:	No data available.



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Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Do not eat, drink or smoke when using the product. Wash hands after handling. Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Black
Odor:	Characteristic
Odor threshold:	No data available.
pH:	7.0 - 12.0
Melting point/freezing point:	< -40 °C < -40 °F
Initial boiling point and boiling range:	> 100 °C > 212 °F
Flash Point:	> 160 °C > 320 °F
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explo	sive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	1.090 - 1.140
Solubility(ies)	
Solubility in water:	Soluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.



Incompatible Materials:	Strong acids. Strong bases.	
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.	
11. Toxicological information		
Information on likely routes of e Inhalation:	xposure In high concentrations, vapors, fumes or mists may irritate nose, throat ar mucus membranes.	nd
Skin Contact:	Causes mild skin irritation.	
Eye contact:	Eye contact is possible and should be avoided.	
Ingestion:	Harmful if swallowed.	
Symptoms related to the physic	al, chemical and toxicological characteristics	
Inhalation:	No data available.	
Skin Contact:	No data available.	
Eye contact:	No data available.	
Ingestion:	No data available.	
Information on toxicological effe	ects	
Acute toxicity (list all possible	e routes of exposure)	
Oral Product:	ATEmix: 558.31 mg/kg	
Dermal Product:		
Specified substance(s): Diethylene glycol	LD 50 (Rabbit): 13,300 mg/kg	
Ethylene glycol	LD 50 (Rabbit): 9,530 mg/kg LD 50 (Mouse): > 3,500 mg/kg	
Inhalation Product:		
Specified substance(s): Glycerine	LC 50: > 570 mg/m3	
Repeated dose toxicity Product:	No data available.	7/4 /



Skin Corrosion/Irritation Product:	No data available.
Specified substance(s): Diethylene glycol	in vivo (Human): Slightly irritating
Ethylene glycol	in vivo (Rabbit): Not irritant , 8 d
Serious Eye Damage/Eye Irritati Product: Specified substance(s):	on No data available.
Diethylene glycol	Rabbit, 24 hrs: Not irritant
Ethylene glycol	Rabbit, 24 hrs: Not irritant
Respiratory or Skin Sensitizatio Product:	n No data available.
Carcinogenicity Product:	No data available.
IARC Monographs on the Evalu No carcinogenic component	ation of Carcinogenic Risks to Humans: is identified
US. National Toxicology Progra No carcinogenic component	m (NTP) Report on Carcinogens: is identified
US. OSHA Specifically Regulate No carcinogenic component	ed Substances (29 CFR 1910.1001-1050), as amended: is identified
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity - Product:	Single Exposure No data available.
	Repeated Exposure

Specific Target Organ Toxicity - Repeated Exposure



Product:	No data available.	
Aspiration Hazard Product:	No data available.	
Other effects:	No data available.	

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): Diethylene glycol	LC 50 (Pimephales promelas, 96 h): 75,200 mg/l Experimental result, Key study
Glycerine	LC 50 (Oncorhynchus mykiss, 96 h): 54,000 mg/l Experimental result, Key study
Ethylene glycol	LC 50 (Pimephales promelas, 96 h): 72,860 mg/l Experimental result, Key study
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Glycerine	LC 50 (Daphnia magna, 48 h): 1,955 mg/l experimental result Experimental result, Supporting study
Chronic hazards to the aquation	c environment:
Fish Product:	No data available.
Specified substance(s): Ethylene glycol	NOAEL (Pimephales promelas): 15,380 mg/l experimental result Experimental result, Weight of Evidence study
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Diethylene glycol	NOAEL (Daphnia magna): > 15,000 mg/l read-across based on grouping of substances (category approach) Read-across based on grouping of substances (category approach), Weight of Evidence study



Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
Specified substance(s): Glycerine	94 % Detected in water. Experimental result, Key study
Ethylene glycol	90 - 100 % (10 d) Detected in water. Experimental result, Key study
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	CF) No data available.
Specified substance(s): Diethylene glycol	Leuciscus idus, Bioconcentration Factor (BCF): 100 Aquatic sediment Experimental result, Key study
Partition Coefficient n-octanol / v Product:	vater (log Kow) No data available.
Specified substance(s): Diethylene glycol	Log Kow: -1.47
Glycerine	Log Kow: -1.76
Ethylene glycol	Log Kow: -1.36
Mobility in soil:	No data available.
Other adverse effects:	No data available.
13. Disposal considerations	
Disposal methods:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	

14. Transport information

TDG:



Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Ethylene glycol	5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Acute toxicity (any route or exposure)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Not regulated.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.



US State Regulations

US. California Proposition 65



WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

VOC:

Regulatory VOC (less water and exempt solvent)		893 g/l
VOC Method 310	:	80.25 %



Inventory Status:

ventory Status:	
Australia Industrial Chem. Act (AIIC):	One or more components in this product are not listed on or exempt from the Inventory.
Canada DSL Inventory List:	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Ontario Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Mexico INSQ:	One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.



	product are not listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
Switzerland New Subs Notified/Registered:	One or more components in this product are not listed on or exempt from the Inventory.
Thailand DIW Existing Chemical Inv. List:	One or more components in this product are not listed on or exempt from the Inventory.
Vietnam National Chemical Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.

16.Other information, including date of preparation or last revision

Revision Date:	10/20/2022
Version #:	1.4
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.