

Version: 1.4 Revision Date: 10/10/2022

# SAFETY DATA SHEET

## 1. Identification

Material name: EUCEM AMA 28 MAX Material: SP 2115-2

#### Recommended use and restriction on use

Recommended use: Additive Restrictions on use: Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Euclid Admixture Canada Inc. 2835 Grand-Allee Saint Hubert QC J4T 2R4 CA

Contact person: Telephone: Emergency telephone number: EH&S Department (450)465-2233 1-800-424-9300 (US); 1-613-996-6666 (Canada)

#### 2. Hazard(s) identification

#### **Hazard Classification**

#### **Health Hazards**

Serious Eye Damage/Eye Irritation Category 2A

#### Unknown toxicity - Health

Acute toxicity, oral	45.94 %
Acute toxicity, dermal	44.58 %
Acute toxicity, inhalation, vapor	70.5 %
Acute toxicity, inhalation, dust	69.14 %
or mist	

#### **Label Elements**

#### Hazard Symbol:



Signal Word:

Hazard Statement:

Warning

Causes serious eye irritation.



Precautionary Statements	
Prevention:	Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	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.

Hazard(s) not otherwise	None.
classified (HNOC):	

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Diethylene glycol	111-46-6	10 - <25%
Triethanolamine	102-71-6	10 - <20%
Ethanolamine	141-43-5	0.1 - <1%
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:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical 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) extinguishing 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 measure	S		
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.		
Accidental release measures: Methods and material for containment and cleaning up:			
Methods and material for containment and cleaning	accordance with all applicable regulations. Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for		
Methods and material for containment and cleaning up:	<ul> <li>accordance with all applicable regulations.</li> <li>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.</li> <li>Do not contaminate water sources or sewer. Prevent further leakage or</li> </ul>		
Methods and material for containment and cleaning up: Environmental Precautions:	<ul> <li>accordance with all applicable regulations.</li> <li>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.</li> <li>Do not contaminate water sources or sewer. Prevent further leakage or</li> </ul>		
Methods and material for containment and cleaning up: Environmental Precautions: 7. Handling and storage	<ul> <li>accordance with all applicable regulations.</li> <li>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.</li> <li>Do not contaminate water sources or sewer. Prevent further leakage or</li> </ul>		
Methods and material for containment and cleaning up: Environmental Precautions: 7. Handling and storage Handling Technical measures (e.g. Local	<ul> <li>accordance with all applicable regulations.</li> <li>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.</li> <li>Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.</li> </ul>		



Hygiene measures:	Avoid contact with eyes. 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**

Chemical Identity	Туре	Exposure Limit Values	Source
Triethanolamine	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as amended (2008)
Ethanolamine	TWA	3 ppm	US. ACGIH Threshold Limit Values, as amended (2011)
	STEL	6 ppm	US. ACGIH Threshold Limit Values, as amended (2011)
	PEL	3 ppm 6 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
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 Values	Source
Triethanolamine	TWA	5 mg/n	13 Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Triethanolamine	TWA	5 mg/n	13 Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Triethanolamine	TWA	0.5 ppm 3.1 mg/n	13 Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (12 2007)
Triethanolamine	TWA	5 mg/n	13 Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Ethanolamine	TWA	3 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	6 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Ethanolamine	STEL	6 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	TWA	3 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)



Ethanolamine	STEL	6 ppm	15 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	TWA	3 ppm	7.5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
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 mg/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 mg/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 mg/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 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Ethylene glycol - Aerosol, inhalable.	STEL		10 mg/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 safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	Additional Information: Use suitable protective gloves if risk of skin contact.
Skin and Body Protection:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Avoid contact with eyes. Observe good industrial hygiene practices.

9. Physical and chemical properties

#### Appearance

Physical state:	liquid
Form:	liquid
Color:	Amber
Odor:	Characteristic
Odor threshold:	No data available.
pH:	10.5



Melting point/freezing point:	< -20 °C < -4 °F	
Initial boiling point and boiling range:	> 100 °C > 212 °F	
Flash Point:	No data available.	
Evaporation rate:	Slower than Ether	
Flammability (solid, gas):	No	
Upper/lower limit on flammability or explosive 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:	1.107	
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 exposure		
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
Skin Contact:	Causes mild skin irritation.	
Eye contact:	Causes serious eye irritation.	
Ingestion:	May be harmful if swallowed.	



## Symptoms related to the physical, 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	cts
Acute toxicity (list all possible	routes of exposure)
Oral Product:	ATEmix: 2,321.07 mg/kg
Dermal Product:	ATEmix: 9,528.97 mg/kg
Inhalation Product:	
Repeated dose toxicity Product: Skin Corrosion/Irritation	No data available.
Product:	No data available.
Specified substance(s): Diethylene glycol	in vivo (Human): Slightly irritating
Triethanolamine	in vivo (Rabbit): Not irritant , 24 - 72 h
Ethanolamine	in vivo (Rabbit): Corrosive , 24 - 72 h
Ethylene glycol	in vivo (Rabbit): Not irritant , 8 d
Serious Eye Damage/Eye Irritatio Product: Specified substance(s):	<b>on</b> No data available.
Diethylene glycol	Rabbit, 24 hrs: Not irritant
Ethylene glycol	Rabbit, 24 hrs: Not irritant
Respiratory or Skin Sensitization	n

#### **Respiratory or Skin Sensitization** Product: No data available.



Carcinogenicity Product:	No data available.	
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified		
US. National Toxicology Progra No carcinogenic componen	am (NTP) Report on Carcinogens: Its identified	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended: No carcinogenic components 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.	
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
Triethanolamine	LC 50 (Pimephales promelas, 96 h): 11,800 mg/l Experimental result, Key study
Ethanolamine	LC 50 (Cyprinus carpio, 96 h): 349 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.
<b>Specified substance(s):</b> Triethanolamine	EC 50 (Ceriodaphnia dubia, 48 h): 609.88 mg/l experimental result Experimental result, Key study
Ethanolamine	EC 50 (Daphnia magna, 48 h): 65 mg/l experimental result Experimental result, Key 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
Triethanolamine	NOAEL (Daphnia magna): 125 mg/l experimental result Experimental result, Key study
Ethanolamine	NOAEL (Daphnia magna): 0.85 mg/l experimental result Experimental result, Key study
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
<b>Specified substance(s):</b> Triethanolamine	100 % (35 d) Sediment Experimental result, Key study



Ethanolamine	> 90 % (21 d) 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:	<b>CF)</b> No data available.
Specified substance(s): Diethylene glycol	Leuciscus idus, Bioconcentration Factor (BCF): 100 Aquatic sediment Experimental result, Key study
Triethanolamine	Cyprinus carpio, Bioconcentration Factor (BCF): < 3.9 Aquatic sediment Experimental result, Key study
Ethanolamine	Bioconcentration Factor (BCF): 9.2 Aquatic sediment QSAR, Key study
Partition Coefficient n-octanol / v Product:	<b>vater (log Kow)</b> No data available.
Specified substance(s): Diethylene glycol	Log Kow: -1.47
Triethanolamine	Log Kow: -1.00 Log Kow: -1.751.32 No Estimated by calculation, Weight of Evidence study
Ethanolamine	Log Kow: -1.31
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

## 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.
Diethanolamine	100 lbs.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate (Acute) Health Hazards Serious eye damage or eye irritation

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)	:	186 g/l
VOC Method 310	:	11.78 %



# Inventory Status:

iventory 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.
Taiwan Chemical Substance Inventory:	One or more components in this



	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:	10/10/2022
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.