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## SAFETY DATA SHEET

## 1. Identification

Material name: EUCON ECO-STRENGTH - BULK GALLONS

Material: 016ES 99

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:** EH&S Department **Telephone:** (450)465-2233

**Emergency telephone number:** 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

#### **Hazard Classification**

#### **Health Hazards**

Serious Eye Damage/Eye Irritation Category 1
Carcinogenicity Category 1B
Specific Target Organ Toxicity - Category 3<sup>1</sup>

Single Exposure

Specific Target Organ Toxicity - Category 2

Repeated Exposure

#### **Target Organs**

1. Respiratory tract irritation.

#### **Unknown toxicity - Health**

Acute toxicity, oral 43.56 %
Acute toxicity, dermal 49.51 %
Acute toxicity, inhalation, vapor 67.96 %
Acute toxicity, inhalation, dust 67.96 %

or mist

## **Environmental Hazards**

Acute hazards to the aquatic Category 3 environment

## **Unknown toxicity - Environment**

Acute hazards to the aquatic 75.59 %

environment



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Chronic hazards to the aquatic 75.59 % environment

#### **Label Elements**

**EUCLID CHEMICAL** 

## **Hazard Symbol:**



Signal Word: Danger

**Hazard Statement:** Causes serious eye damage.

May cause cancer.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life.

Precautionary Statements

**Prevention:** Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Do not breathe

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment

as required.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF exposed or concerned: Get medical

advice/attention.

**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked

up.

**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



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Chemical Identity	CAS number	Content in percent (%)*
Calcium nitrate tetrahydrate	13477-34-4	20 - <50%
Sodium thiocyanate	540-72-7	10 - <25%
Diethanolamine	111-42-2	5 - <10%
Triethanolamine	102-71-6	1 - <5%
Acetic acid	64-19-7	1 - <3%
D-Gluconic acid		1 - <5%

<sup>\*</sup> 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. Call a physician or poison control

center immediately.

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:** Extreme irritation of eyes and mucous membranes, including burning and

tearing. Respiratory tract irritation.

**Hazards:** No data available.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed.

## 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.



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#### Special protective equipment and 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. Avoid release to the environment.

## 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: Wash hands thoroughly after handling. Do not handle until all safety

precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial

hygiene practices.

Contact avoidance measures: No data available.

**Hygiene measures:** Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. Do not get in eyes. Avoid contact

with eyes.

Storage

Safe storage conditions: Store locked up.

Safe packaging materials: No data available.

#### 8. Exposure controls/personal protection

#### Control Parameters



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**Occupational Exposure Limits** 

<b>Chemical Identity</b>	Туре	Exposure Limit Value	es	Source
Diethanolamine - Inhalable fraction and vapor.	TWA	1 n	ng/m3	US. ACGIH Threshold Limit Values, as amended (2011)
Triethanolamine	TWA	5 n	ng/m3	US. ACGIH Threshold Limit Values, as amended (2008)
Acetic acid TWA		10 ppm		US. ACGIH Threshold Limit Values, as amended (2011)
	STEL	15 ppm		US. ACGIH Threshold Limit Values, as amended (2011)
	PEL	10 ppm 25 n	ng/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)

Chemical name	Туре	Exposure Limit Values		Source
Diethanolamine	TWA	2 mg/m3		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Diethanolamine - Inhalable fraction and vapor.	TWA		1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Diethanolamine - Inhalable fraction and vapor.	TWA		1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)
Triethanolamine	TWA		5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Triethanolamine	TWA		5 mg/m3	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/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (12 2007)
Triethanolamine	TWA		5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Acetic acid	STEL	15 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Acetic acid	STEL	15 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	TWA	10 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Acetic acid	TWA	10 ppm	25 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
	STEL	15 ppm	37 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)

# 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.



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#### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Wear a full-face respirator, if needed. Wear safety glasses with side shields

(or goggles) and a face shield.

**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:** Observe good industrial hygiene practices. Wash hands before breaks and

immediately after handling the product. Do not get in eyes. Avoid contact

with eyes.

## 9. Physical and chemical properties

**Appearance** 

Physical state: liquid
Form: liquid
Color: Amber
Odor: Mild

Odor threshold: No data available.

**pH**: 8

Melting point/freezing point:No data available.Initial boiling point and boiling range:No data available.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 (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

in the bottom of containers.

Relative density: 1.25

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.



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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

**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 damage.

**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 effects

#### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** ATEmix: 2,362.86 mg/kg

Dermal

**Product:** ATEmix: 5,039.34 mg/kg

Inhalation Product:



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Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

Sodium thiocyanate In vitro Not irritant, 15 min

Triethanolamine in vivo (Rabbit): Not irritant, 24 - 72 h

Acetic acid in vivo (Rabbit): Slightly irritating, 72 h

D-Gluconic acid in vivo (Rabbit): Not Classified, 24 - 72 h

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

D-Gluconic acid Rabbit, 24 - 72 hrs: Not Classified

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Calcium nitrate

tetrahydrate

Overall evaluation: Probably carcinogenic to humans.

Diethanolamine Overall evaluation: Possibly carcinogenic to humans.

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified



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## **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 - Single Exposure
Product:

No data available.

Product: No data available

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Target Organs** 

Specific Target Organ Toxicity - Single Exposure: Respiratory tract irritation.

**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):

Sodium thiocyanate LC 50 (Oncorhynchus mykiss, 96 h): 65 mg/l

LC 50 (Oncorhynchus mykiss, 96 h): 65 mg/l Read-across based on

grouping of substances (category approach), Key study

Diethanolamine LC 50 (Pimephales promelas, 96 h): 1,370 mg/l Experimental result, Key

study

Triethanolamine LC 50 (Pimephales promelas, 96 h): 11,800 mg/l Experimental result, Key

study

Acetic acid LC 50 (Oncorhynchus mykiss, 96 h): > 1,000 mg/l Experimental result, Key

study



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D-Gluconic acid LC 50 (Oryzias latipes, 96 h): > 100 mg/l Read-across from supporting

substance (structural analogue or surrogate), Key study

Aquatic Invertebrates

**Product:** No data available.

Specified substance(s):

Sodium thiocyanate EC 50 (Daphnia magna, 48 h): 3.56 mg/l read-across based on grouping of

substances (category approach) Read-across based on grouping of

substances (category approach), Key study

Diethanolamine EC 50 (Ceriodaphnia dubia, 48 h): 30.1 mg/l experimental result

Experimental result, Key study

Triethanolamine EC 50 (Ceriodaphnia dubia, 48 h): 609.88 mg/l experimental result

Experimental result, Key study

Acetic acid EC 50 (Daphnia magna, 48 h): 65,000 µg/l

EC 50 (Daphnia magna, 48 h): > 1,000 mg/l experimental result

Experimental result, Key study

D-Gluconic acid EC 50 (Daphnia magna, 48 h): > 1,000 mg/l read-across from supporting

substance (structural analogue or surrogate) Read-across from supporting

substance (structural analogue or surrogate), Key study

#### Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

Sodium thiocyanate NOAEL (Cyprinus carpio): 20 mg/l experimental result Experimental result,

Supporting study

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Sodium thiocyanate NOAEL (Daphnia magna): 1.25 mg/l read-across based on grouping of

substances (category approach) Read-across based on grouping of

substances (category approach), Key study

Diethanolamine NOAEL (Daphnia magna): 0.78 mg/l experimental result Experimental result,

Key study

Triethanolamine NOAEL (Daphnia magna): 125 mg/l experimental result Experimental result,

Key study

Acetic acid NOAEL (Daphnia magna): 22.7 mg/l experimental result Experimental result,

Not specified

**Toxicity to Aquatic Plants** 

**Product:** No data available.

#### Persistence and Degradability



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**Biodegradation** 

**Product:** No data available.

Specified substance(s):

Diethanolamine 93 % (28 d) Detected in water. Experimental result, Key study

Triethanolamine 100 % (35 d) Sediment Experimental result, Key study

Acetic acid 96 % (20 d) Detected in water. Experimental result, Key study

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Specified substance(s):

Triethanolamine Cyprinus carpio, Bioconcentration Factor (BCF): < 3.9 Aquatic sediment

Experimental result, Key study

Acetic acid Various, Bioconcentration Factor (BCF): 3.16 Aquatic sediment QSAR, Key

study

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Specified substance(s):

Diethanolamine Log Kow: -1.43

Log Kow: 1.43

Triethanolamine Log Kow: -1.00

Log Kow: -1.75 - -1.32 No Estimated by calculation, Weight of Evidence

study

Acetic acid Log Kow: -0.17

Mobility in soil: No data available.

Other adverse effects: Harmful to aquatic life with long lasting effects.

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.



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## 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):

<u>Chemical Identity</u> <u>Reportable quantity</u>

Diethanolamine 100 lbs. Acetic acid 5000 lbs.

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

## **Hazard categories**

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Serious eye damage or eye irritation

Carcinogenicity

Specific target organ toxicity (single or repeated 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



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<u>Chemical Identity</u> % by weight

Calcium nitrate tetrahydrate

1.0%

Diethanolamine 1.0%

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 - 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 : 53 g/l

exempt solvent)

VOC Method 310 : 2.51 %



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**Inventory 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: All components in this product are

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.

One or more components in this Ontario Inventory:

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.

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.

All components in this product are **US TSCA Inventory:** 

listed on or exempt from the

Inventory.

One or more components in this Switzerland New Subs Notified/Registered:

product are not listed on or exempt

from the Inventory.

Thailand DIW Existing Chemical Inv. One or more components in this



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List: 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.

China Inv. Existing Chemical

Substances:

All components in this product are

listed on or exempt from the

Inventory.

Japan (ENCS) List: All components in this product are

listed on or exempt from the

Inventory.

New Zealand Inventory of Chemicals: All components in this product are

listed on or exempt from the

Inventory.

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

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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.