

Revision Date: 07/31/2017

SAFETY DATA SHEET

1. Identification

Material name: EUCON FOR-CAST SC- 55 GALLON DRUM

Material: 130 55

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:EH&S DepartmentTelephone:216-531-9222

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 2A Carcinogenicity Category 2

Unknown toxicity - Health

Acute toxicity, oral 0.17 %
Acute toxicity, dermal 7.89 %
Acute toxicity, inhalation, vapor 28.39 %
Acute toxicity, inhalation, dust 22.21 %

or mist

Environmental Hazards

Acute hazards to the aquatic Category 3 environment

Unknown toxicity - Environment

Acute hazards to the aquatic 79.45 %

environment

Chronic hazards to the aquatic 93.76 %

environment

Label Elements

Hazard Symbol:



Revision Date: 07/31/2017



Signal Word: Warning

Hazard Statement: Causes serious eye irritation.

Suspected of causing cancer.

Harmful to aquatic life.

Precautionary Statements

Prevention: Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection. Obtain special instructions before

use. Do not handle until all safety precautions have been read and

understood. Use personal protective equipment as required. Avoid release

to the environment.

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. IF exposed or concerned: Get

medical advice/attention.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Coconut diethanolamide	68603-42-9	5 - <10%
Triethanolamine	102-71-6	5 - <10%
Benzenesulfonic acid,C10-16-alkyl derivatives	68584-22-5	5 - <10%
Glycerine	56-81-5	0.1 - <1%
Diethanolamine	111-42-2	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



Revision Date: 07/31/2017

Ingestion: Rinse mouth thoroughly.

Inhalation: Move to fresh air.

Skin Contact: Remove contaminated clothing and wash the skin thoroughly with soap and

water after work.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed

Symptoms: May cause skin and eye irritation.

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.

Special protective equipment and precautions for firefighters

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.

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.



Revision Date: 07/31/2017

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in

accordance with all applicable regulations.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe

to do so. Do not contaminate water sources or sewer.

7. Handling and storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood.

Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after

handling. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage,

including any incompatibilities:

Store locked up.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source	
Triethanolamine	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (2011)	
	ST ESL	50 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)	
	AN ESL	5 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (07 2011)	
	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (08 2010)	
Glycerine - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	
Glycerine - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)	
Diethanolamine - Inhalable fraction and vapor.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2011)	



Revision Date: 07/31/2017

Chemical name	Туре	Exposure Limit Values	Source	
Triethanolamine	TWA	5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)	
Triethanolamine	TWA	5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical 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) (11 2010)	
Triethanolamine	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)	
Diethanolamine	TWA	2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical 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) (11 2010)	
Diethanolamine	TWA	3 ppm 13 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)	

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

General information: Provide easy access to water supply and eye wash facilities. Good general

ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable

level.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: Use suitable protective gloves if risk of skin contact.

Other: 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. Avoid contact with eyes.

9. Physical and chemical properties

Appearance

Physical state:liquidForm:liquidColor:Amber



Revision Date: 07/31/2017

Odor: Mild

Odor threshold: No data available.

pH: 7 - 10

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.

No data available.

Vapor pressure:

No data available.

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

in the bottom of containers.

Relative density: 1.03

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

Thermal decomposition or combustion may liberate carbon oxides and

Products: 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.



Revision Date: 07/31/2017

Skin Contact: Moderately irritating to skin with prolonged exposure.

Eye contact: Causes serious eye irritation.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

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: 61,670.85 mg/kg

Dermal

Product: ATEmix: 16,924.2 mg/kg

Inhalation

Product: ATEmix: 24.01 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Triethanolamine in vivo (Rabbit): Not irritant Experimental result, Key study

Benzenesulfonic acid,C10-16-alkyl

derivatives

in vivo (Rabbit): Not irritant Read-across based on grouping of substances

(category approach), Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Benzenesulfonic acid,C10-16-alkyl derivatives

Rabbit, 24 hrs: Irritating



Revision Date: 07/31/2017

Glycerine Rabbit, 24 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Coconut Overall evaluation: Possibly carcinogenic to humans.

diethanolamide

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):

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 - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.



Revision Date: 07/31/2017

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Triethanolamine LC 50 (Fathead minnow (Pimephales promelas), 96 h): 10,610 - 13,010 mg/l

Mortality

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

study

Glycerine LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 96 h): 51,000

- 57,000 mg/l Mortality

Diethanolamine LC 50 (Fathead minnow (Pimephales promelas), 96 h): 100 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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

study

Benzenesulfonic acid,C10-16-alkyl derivatives

EC 50 (Water flea (Ceriodaphnia dubia), 48 h): 4.66 - 6.83 mg/l Intoxication

Diethanolamine EC 50 (Water flea (Ceriodaphnia dubia), 48 h): 61.8 - 86.04 mg/l Intoxication

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Triethanolamine NOEC (Daphnia magna, 21 d): 125 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Revision Date: 07/31/2017

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Triethanolamine Various, Bioconcentration Factor (BCF): 0.89 Aquatic sediment QSAR,

Supporting study

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

Experimental result, Key study

Bioconcentration Factor (BCF): 3.02 Aquatic sediment QSAR, Weight of

Evidence study

Bioconcentration Factor (BCF): 0.68 Aquatic sediment QSAR, Supporting

study

Bioconcentration Factor (BCF): 0.96 Aquatic sediment QSAR, Supporting

study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Triethanolamine Log Kow: -1.00

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

study

Glycerine Log Kow: -1.76

Diethanolamine Log Kow: -1.43

Mobility in soil: No data available.

Other adverse effects: Harmful to aquatic organisms.

13. Disposal considerations

Disposal instructions: 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:



Revision Date: 07/31/2017

Not Regulated

IMDG:

Not Regulated

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. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity		
Diethanolamine	100 lbs.		
Sulfuric acid	1000 lbs.		
Methanol	5000 lbs.		
Sodium hydroxide	1000 lbs.		

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Serious Eye Damage/Eye Irritation Carcinogenicity

SARA 302 Extremely Hazardous Substance

Reportable

Chemical IdentityquantityThreshold Planning QuantitySulfuric acid1000 lbs.1000 lbs.

SARA 304 Emergency Release Notification

Chemical Identity Reportable quantity

Diethanolamine 100 lbs.
Sulfuric acid 1000 lbs.
Methanol 5000 lbs.
Sodium hydroxide 1000 lbs.

[1,1'-Biphenyl]-2-ol, sodium salt (1:1)



Revision Date: 07/31/2017

SARA 311/312 Hazardous Chemical

Chemical IdentityThreshold Planning QuantitySulfuric acid500lbs

Coconut diethanolamide 10000 lbs Triethanolamine 10000 lbs Benzenesulfonic acid,C10- 10000 lbs

16-alkyl derivatives

Glycerine 10000 lbs Diethanolamine 10000 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Chemical Identity Reportable quantity

Sulfuric acid lbs

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

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Coconut diethanolamide Carcinogenic. 06 2015
Diethanolamine Carcinogenic. 07 2012
Sulfuric acid Carcinogenic. 09 2011
Methanol Developmental toxin. 03 2012

[1,1'-Biphenyl]-2-ol, Carcinogenic. 09 2011

sodium salt (1:1)

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Triethanolamine

US. Massachusetts RTK - Substance List

Chemical Identity

Triethanolamine

Sulfuric acid

[1,1'-Biphenyl]-2-ol, sodium salt (1:1)

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Triethanolamine

US. Rhode Island RTK

Chemical Identity

Triethanolamine

International regulations



Revision Date: 07/31/2017

Montreal protocol

not applicable

Stockholm convention

not applicable

Rotterdam convention

not applicable

Kyoto protocol not applicable

VOC:

Regulatory VOC (less water and

exempt solvent) VOC Method 310

: 0.06 %

: 2 g/l



Revision Date: 07/31/2017

Inventory Status:

Australia AICS: 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.

EINECS, ELINCS or NLP: 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.

China Inv. Existing Chemical Substances:

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.

Canada NDSL Inventory: 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.

US TSCA Inventory:

All components in this product are 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.

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.

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

Revision Date: 07/31/2017

Version #: 4.0

Further Information: No data available.



Revision Date: 07/31/2017

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.