

Revision Date: 12/08/2023

SAFETY DATA SHEET

1. Identification

Material name: EUCON SURE SHOT AF

Material: 019S 0001

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 Department **Telephone:** 216-531-9222

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

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation Category 1A
Serious Eye Damage/Eye Irritation Category 1
Carcinogenicity Category 2

Unknown toxicity - Health

Acute toxicity, oral 36.24 %
Acute toxicity, dermal 40.54 %
Acute toxicity, inhalation, vapor 99.99 %
Acute toxicity, inhalation, dust 40.54 %

or mist

Environmental Hazards

Acute hazards to the aquatic Category 2

environment

Unknown toxicity - Environment

Acute hazards to the aquatic 36.24 %

environment

Chronic hazards to the aquatic 99.99 %

environment

Label Elements



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Hazard Symbol:



Signal Word: Danger

Hazard Statement: Causes severe skin burns and eye damage.

Suspected of causing cancer.

Toxic to aquatic life.

Precautionary Statements

Prevention: Do not breathe dust or mists. 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 INHALED: Remove person to fresh air and keep comfortable for

breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician. Specific treatment (see on this label). Wash contaminated clothing before

reuse.

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 (%)*
Aluminum Sulfate (Anhydrous)	10043-01-3	50 - <100%
Diethanolamine	111-42-2	1 - <5%
Glycerine	56-81-5	0.1 - <1%

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



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4. First-aid measures

Description of necessary first-aid measures

Inhalation: Call a physician or poison control center immediately. If breathing

stops, provide artificial respiration. Move to fresh air. If breathing is

difficult, give oxygen.

Skin Contact: Call a physician or poison control center immediately. Immediately

flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Destroy or thoroughly clean

contaminated shoes.

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 physician or poison control center immediately. Rinse mouth.

Never give liquid to an unconscious person. Do not induce vomiting

without advice from poison control center.

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: Prolonged or repeated contact with skin may cause redness, itching,

irritation and eczema/chapping. Extreme irritation of eyes and mucous

membranes, including burning and tearing.

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.

Special protective equipment and precautions for fire-fighters

Special fire-fighting

procedures:

No data available.



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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: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Keep unauthorized personnel away.

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: 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

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:

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. Wash hands thoroughly after handling. Do not get in eyes, on skin, on clothing. 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. Wash

contaminated clothing before reuse. Do not get this material in contact with

skin.

Storage

Safe storage conditions: Store locked up.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity Type	Exposure Limit Values	Source
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Aluminum Sulfate	REL	2 mg/m3	US. NIOSH: Pocket Guide to Chemical
(Anhydrous) - as Al		-	Hazards, as amended (2010)
	TWA	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000),
		3	as amended (1989)
Diethanolamine - Inhalable	TWA	1 mg/m3	US. ACGIH Threshold Limit Values, as
fraction and vapor.		•	amended (2011)
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	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
fraction.		•	Contaminants (29 CFR 1910.1000), as
			amended (02 2006)
Glycerine - Total dust.	TWA	50 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
•		particles per	amended (09 2016)
		cubic foot of	, ,
		air	
	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
		-	amended (09 2016)
Glycerine - Respirable	TWA	15 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
fraction.		particles per	amended (09 2016)
		cubic foot of	
		air	
	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
		_	amended (09 2016)

Chemical name	Туре	Exposure Limit Values	Source
Aluminum Sulfate (Anhydrous) - as Al	TWA	2 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Aluminum Sulfate (Anhydrous) - Respirable dust.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (04 2022)
Diethanolamine	TWA	2 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); 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)

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 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: Wear chemical-resistant gloves, footwear, and protective clothing

appropriate for the risk of exposure. Contact health and safety professional

or manufacturer for specific information.



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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. Wash

contaminated clothing before reuse. Do not get this material in contact with

skin.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Light beige
Odor: Mild sour/acidic
Odor threshold: No data available.

pH: 2

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: 1.435

Solubility(ies)

Solubility in water: Miscible with water.
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.



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Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and

chromates). Metals. 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 severe skin burns.

Eye contact: Causes serious eye damage.

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: 17,061.64 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Aluminum Sulfate LD 50 (Mouse): > 1,167.5 mg/kg (Anhydrous) LD 50 (Pig): > 1,167.5 mg/kg

LD 50 (Rabbit): > 1,167.5 mg/kg LD 50 (Rabbit): > 5,000 mg/kg NOAEL (Rabbit): > 233.5 mg/kg NOAEL (Mouse): > 233.5 mg/kg LD 50 (Rabbit): > 5,000 mg/kg NOAEL (Mouse): 2,335 mg/kg NOAEL (Pig): > 233.5 mg/kg

Inhalation



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Product: ATEmix: 5 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Aluminum Sulfate (Anhydrous)

in vivo (Human): Slightly irritating

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Aluminum Sulfate Rabbit, 1 - 3 d: Moderately irritating (Anhydrous) Rabbit, 12 - 72 h: Not irritant

Rabbit, 48 h: Slightly 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:

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 1910.1001-1053), 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.



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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: Constituents of this product may include crystalline silica which, if in

inhalable form, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimis exposure to these impurities in inhalable form may be carcinogenic

or cause other serious lung problems.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

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

study

Glycerine LC 50 (Oncorhynchus mykiss, 96 h): 54,000 mg/l Experimental result, Key

study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Aluminum Sulfate EC 50 (Daphnia magna, 48 h): 4.3 mg/l read-across based on grouping of

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

substances (category approach), Key study

substances (category approach), Ney study

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

Experimental result, Key study

Glycerine LC 50 (Daphnia magna, 48 h): 1,955 mg/l experimental result Experimental

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result, Supporting study

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Aluminum Sulfate (Anhydrous)

NOAEL: 24 µg/l experimental result Experimental result, Key study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Aluminum Sulfate NOAEL (Daphnia magna): 12 mg/l experimental result Experimental result, (Anhydrous) Key study

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

Key study

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

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

Glycerine 94 % 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):

Aluminum Sulfate Salmo salar, Bioconcentration Factor (BCF): 362 Aquatic sediment

(Anhydrous) Experimental result, 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

Glycerine Log Kow: -1.76



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Mobility in soil: No data available.

Other adverse effects: Toxic to aquatic organisms.

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:

UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminum Sulfate), 8, PG III

CFR / DOT:

UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum Sulfate), 8, PG III

IMDG:

UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminum Sulfate), 8, PG III, MARINE POLLUTANT

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) Proposed 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 1910.1001-1053), 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>

Aluminum Sulfate (Anhydrous)

5000 lbs.

Diethanolamine

100 lbs.



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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

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

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

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

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)

Chemical Identity Reportable quantity

Aluminum Sulfate Reportable quantity: 5000 lbs.

(Anhydrous)

US State Regulations

US. California Proposition 65

For more information go to 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 : 0 g/l

exempt solvent)

VOC Method 310 : 0.00 %



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Inventory Status:

Australia AICS: All components in this product are

listed on or exempt from the

Inventory.

EC Inventory: All components in this product are

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:

All components in this product are

listed on or exempt from the

Inventory.

Korea Existing Chemicals Inv. (KECI): 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.

Philippines PICCS: All components in this product are

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: All components in this product are

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.

Canada DSL Inventory List:

All components in this product are

listed on or exempt from the

Inventory.



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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.