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# SAFETY DATA SHEET

# 1. Identification

Material name: TAMMSCRETE

Material: TR5116640

Recommended use and restriction on use

Recommended use: Cement, Portland, chemicals

Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY 19218 REDWOOD ROAD CLEVELAND OH 44110 US

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**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 2
Serious Eye Damage/Eye Irritation Category 1
Skin sensitizer Category 1
Carcinogenicity Category 1A
Specific Target Organ Toxicity - Category 3<sup>1</sup>

Single Exposure

Specific Target Organ Toxicity - Category 1<sup>2</sup>

Repeated Exposure

### **Target Organs**

1. Respiratory tract irritation.

2. Lung

# **Unknown toxicity - Health**

Acute toxicity, oral 99.03 %
Acute toxicity, dermal 99.29 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 99.78 %

or mist

#### **Label Elements**

#### **Hazard Symbol:**



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Signal Word: Danger

Hazard Statement: Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause cancer.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

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

clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not eat, drink or smoke when using this product.

**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: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Wash contaminated clothing before

reuse.

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

closed.

**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 (%)*
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	50 - <100%
Portland cement	65997-15-1	20 - <50%
Aluminum oxide	1344-28-1	0.1 - <1%



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\* 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:** Get medical attention. Destroy or thoroughly clean contaminated

shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic

skin reaction develops, get medical 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:** 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. 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.

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

res: 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:

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):

Mechanical ventilation or local exhaust ventilation may be required.

Observe good industrial hygiene practices. Observe occupational exposure

limits and minimize the risk of inhalation of dust.

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.

Avoid contact with skin. Avoid contact with eyes, skin, and

clothing. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in

case of handling which causes formation of dust.

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. Avoid contact with skin. Contaminated

work clothing should not be allowed out of the workplace.

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	Туре	Exposure Limit Values	Source
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Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (03 2016)
	OSHA_AC T	0.025 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	PEL	0.05 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values, as amended (02 2020)
Portland cement - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values, as amended (2011)
Portland cement - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Portland cement - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Portland cement	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)
Aluminum oxide - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values, as amended (2011)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
Aluminum oxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
Aluminum oxide - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
Aluminum oxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
Aluminum oxide - Inhalable particles.	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended (01 2021)
Aluminum oxide - Respirable particles.	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as amended (01 2021)



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Chemical name	Туре	Exposure Limit Values	Source
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2020)
Portland cement - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Portland cement - Respirable dust.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Portland cement - Respirable.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2017)
Portland cement - Respirable fraction.	TWA	1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)

Appropriate Engineering Controls

Mechanical ventilation or local exhaust ventilation may be required.

Observe good industrial hygiene practices. Observe occupational exposure

limits and minimize the risk of inhalation of dust.

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.

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. Avoid contact with skin. Contaminated

work clothing should not be allowed out of the workplace.

# 9. Physical and chemical properties

**Appearance** 

Physical state:solidForm:Powder



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Color: Gray
Odor: Odorless

Odor threshold:

pH:

No data available.

Flammability (solid, gas): No Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

No data available.

Relative density: 2.8

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.

Possibility of hazardous

reactions:

No data available.

**Conditions to avoid:** Avoid heat or contamination.

**Incompatible Materials:** No data available.

**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

**Inhalation:** In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

**Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.



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

Specified substance(s):

Crystalline Silica (Quartz)/ Silica Sand

LD 50: > 2,000 mg/kg

Aluminum oxide LD 50 (Rat): > 10,000 mg/kg

**Dermal** 

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

Inhalation

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

Specified substance(s):

Crystalline Silica (Quartz)/ Silica Sand

LC 50: > 5.0 mg/l

Aluminum oxide LC 50 (Rat): 7.6 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):



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

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Aluminum oxide Rabbit, 24 hrs: Not irritant

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

**Product:** No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Crystalline Silica

(Quartz)/ Silica

Sand

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

Crystalline Silica Known To Be Human Carcinogen.

(Quartz)/ Silica

Sand

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

Overall evaluation: Carcinogenic to humans.

Crystalline Silica

(Quartz)/ Silica Cancer

Sand

**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.

**Target Organs** 



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

Specific Target Organ Toxicity - Repeated Exposure: Lung

**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):

Aluminum oxide LC 50 (Pimephales promelas, 96 h): 1.16 mg/l Experimental result, Weight

of Evidence study

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Aluminum oxide EC 50 (Ceriodaphnia dubia, 48 h): 1.5 mg/l experimental result Experimental

result, Weight of Evidence study

#### Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Aluminum oxide NOAEL (Daphnia magna): 1.89 mg/l experimental result Experimental result,

Weight of Evidence study

**Toxicity to Aquatic Plants** 

**Product:** No data available.



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Persistence and Degradability	Ρ	er	sis	ten	се	and	Degr	ada	bility	/
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Biodegradation

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

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

# 15. Regulatory information



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#### **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

Chemical Identity
Crystalline Silica
(Quartz)/ Silica Sand

OSHA hazard(s) kidney effects lung effects

immune system effects

Cancer

#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

Reportable quantity

Methyl methacrylate

1000 lbs.

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

#### Hazard categories

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

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Skin sensitizer Carcinogenicity

Specific Target Organ Toxicity - Single Exposure

Specific Target Organ Toxicity - 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

# 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**

For more information go to www.P65Warnings.ca.gov.

#### International regulations

#### Montreal protocol

Not applicable



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# Stockholm convention

Not applicable

# **Rotterdam convention**

Not applicable

# Kyoto protocol Not applicable

VOC:

Regulatory VOC (less water and : < 5 g/l exempt solvent)

VOC Method 310

: 0.00 %



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**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.

Mexico INSQ: One or more components in this



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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.

Taiwan Chemical Substance Inventory: 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

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Version #: 3.1

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.