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# SAFETY DATA SHEET

#### 1. Identification

Material name: LEVEL TOP PC-AGG: GRAY - 50# BAG

Material: 407A 50

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

**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**

Acute toxicity (Oral)

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Skin sensitizer

Carcinogenicity

Specific Target Organ Toxicity 
Repeated Exposure

Category 1

Category 1

Category 1

Category 1

Category 1

#### **Target Organs**

1. Lung

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

Acute toxicity, oral 73.88 %
Acute toxicity, dermal 83.16 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 37.78 %

or mist

#### **Environmental Hazards**

Acute hazards to the aquatic Category 3 environment

**Unknown toxicity - Environment** 



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Acute hazards to the aquatic 94.86 %

environment

Chronic hazards to the aquatic 100

environment

100 %

#### **Label Elements**

# **Hazard Symbol:**



Signal Word: Danger

Hazard Statement: Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause cancer.

Causes damage to organs through prolonged or repeated exposure.

Harmful to aquatic life.

Precautionary Statements

**Prevention:** Wash thoroughly after handling. Do not eat, drink or smoke when using this

product. Do not breathe dust/fume/gas/mist/vapors/spray. 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. 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 skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTRE/doctor/... if you feel unwell. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. 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.



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#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Crystalline Silica (Quartz)/ Silica Sand	14808-60-7	50 - <100%
Calcium oxide	1305-78-8	10 - <20%
Portland cement	65997-15-1	10 - <20%
Aluminum oxide	1344-28-1	5 - <10%
Silica, fused	60676-86-0	1 - <5%
Aluminum Sulfate (Anhydrous)	10043-01-3	3 - <5%
Iron oxide	1309-37-1	1 - <5%
Dolomite	16389-88-1	0.1 - <1%
Magnesium oxide	1309-48-4	0.1 - <1%
Amorphous silica	7631-86-9	0.1 - <1%
Glycol ether solvent	112-34-5	0.1 - <1%
Titanium dioxide	13463-67-7	0.1 - <1%

<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:** Get medical attention if symptoms occur. 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:** 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



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**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:

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:

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):

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: 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.Do not taste or swallow. 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, skin, and clothing.



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Contact avoidance measures: No data available.

**Hygiene measures:** Observe good industrial hygiene practices. Do not eat, drink or smoke

when using the product. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Contaminated work clothing should not be allowed out of the workplace.

Avoid 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	Туре	Exposure Limit Values	Source
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values, as amended (2011)
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)
Calcium oxide	TWA	2 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)
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)



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	T 70/0	50 '11'	HO COUNT II 70 (00 OFF 1010 1000)
	TWA	50 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
		particles per	amended (03 2016)
		cubic foot of	
		air	
Aluminum oxide - Respirable	TWA	15 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
fraction.		particles per	amended (03 2016)
		cubic foot of	
		air	
	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
		ő	amended (03 2016)
Aluminum oxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
Total addi.		10 mg/mo	amended (03 2016)
Silica, fused	TWA	20 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
Silica, fuseu	IVVA	particles per	amended (2000)
		cubic foot of	amended (2000)
	7344	air	110 OOLIA T. I.I. 7.0 (00 OED 1010 1000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
			amended (2000)
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),
		<i>g</i> <b>.</b>	as amended (1989)
	TWA	2 mg/m3	US. Tennessee. OELs. Occupational Exposure
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	z mg/ms	Limits, Table Z1A, as amended (06 2008)
Alexandra Octions	OT FOL	50 · · · /· · 0	
Aluminum Sulfate	ST ESL	50 μg/m3	US. Texas. Effects Screening Levels (Texas
(Anhydrous)			Commission on Environmental Quality), as
			amended (03 2014)
	AN ESL	5 μg/m3	US. Texas. Effects Screening Levels (Texas
			Commission on Environmental Quality), as
			amended (03 2014)
	TWA PEL	2 mg/m3	US. California Code of Regulations, Title 8,
		9	Section 5155. Airborne Contaminants, as
			amended (08 2010)
Aluminum Sulfate	TWA	1 mg/m3	US. ACGIH Threshold Limit Values, as
	1000	1 1119/1113	
(Anhydrous) - Respirable			amended (2011)
fraction.	TALL	5 / 0	110 40011171 1 1111: 3771
Iron oxide - Respirable	TWA	5 mg/m3	US. ACGIH Threshold Limit Values, as
fraction.			amended (2011)
Iron oxide - Fume.	PEL	10 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000), as
			amended (02 2006)
Iron oxide - Total dust.	TWA	50 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
		particles per	amended (03 2016)
		cubic foot of	amenaea (66 26 16)
		air	
Iron ovido Dozzischie	TWA		LIC OCIIA Tobio 7.2 (00 OFD 4040 4000)
Iron oxide - Respirable	IWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
fraction.			amended (03 2016)
	TWA	15 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
		particles per	amended (03 2016)
		cubic foot of	
		Cubic 100t of	
		air	
Iron oxide - Total dust	TWA	air	US, OSHA Table 7-3 (29 CFR 1910 1000), as
Iron oxide - Total dust.	TWA		US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
		air 15 mg/m3	amended (03 2016)
Dolomite - Inhalable	TWA TWA	air	amended (03 2016) US. ACGIH Threshold Limit Values, as
Dolomite - Inhalable particles.	TWA	air 15 mg/m3 10 mg/m3	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)
Dolomite - Inhalable particles. Dolomite - Respirable		air 15 mg/m3	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as
Dolomite - Inhalable particles. Dolomite - Respirable particles.	TWA	air 15 mg/m3 10 mg/m3 3 mg/m3	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)
Dolomite - Inhalable particles. Dolomite - Respirable	TWA	air 15 mg/m3 10 mg/m3	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as
Dolomite - Inhalable particles. Dolomite - Respirable particles.	TWA	air 15 mg/m3 10 mg/m3 3 mg/m3	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)
Dolomite - Inhalable particles. Dolomite - Respirable particles. Dolomite - Respirable	TWA	air 15 mg/m3 10 mg/m3 3 mg/m3 15 millions of particles per	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as
Dolomite - Inhalable particles. Dolomite - Respirable particles. Dolomite - Respirable	TWA	air 15 mg/m3 10 mg/m3 3 mg/m3 15 millions of particles per cubic foot of	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as
Dolomite - Inhalable particles. Dolomite - Respirable particles. Dolomite - Respirable fraction.	TWA TWA TWA	air 15 mg/m3 10 mg/m3 3 mg/m3 15 millions of particles per cubic foot of air	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
Dolomite - Inhalable particles. Dolomite - Respirable particles. Dolomite - Respirable	TWA	air 15 mg/m3 10 mg/m3 3 mg/m3 15 millions of particles per cubic foot of air 50 millions of	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as
Dolomite - Inhalable particles. Dolomite - Respirable particles. Dolomite - Respirable fraction.	TWA TWA TWA	air 15 mg/m3 10 mg/m3 3 mg/m3 15 millions of particles per cubic foot of air 50 millions of particles per	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
Dolomite - Inhalable particles. Dolomite - Respirable particles. Dolomite - Respirable fraction.	TWA TWA TWA	air 15 mg/m3 10 mg/m3 3 mg/m3 15 millions of particles per cubic foot of air 50 millions of particles per cubic foot of	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as
Dolomite - Inhalable particles. Dolomite - Respirable particles. Dolomite - Respirable fraction.	TWA TWA TWA	air 15 mg/m3 10 mg/m3 3 mg/m3 15 millions of particles per cubic foot of air 50 millions of particles per cubic foot of air cubic foot of air	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
Dolomite - Inhalable particles. Dolomite - Respirable particles. Dolomite - Respirable fraction.	TWA TWA TWA	air 15 mg/m3 10 mg/m3 3 mg/m3 15 millions of particles per cubic foot of air 50 millions of particles per cubic foot of air cubic foot of air	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as
Dolomite - Inhalable particles. Dolomite - Respirable particles. Dolomite - Respirable fraction.	TWA TWA TWA	air 15 mg/m3 10 mg/m3 3 mg/m3 15 millions of particles per cubic foot of air 50 millions of particles per cubic foot of	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
Dolomite - Inhalable particles. Dolomite - Respirable particles. Dolomite - Respirable fraction.	TWA TWA TWA	air 15 mg/m3 10 mg/m3 3 mg/m3 15 millions of particles per cubic foot of air 50 millions of particles per cubic foot of air cubic foot of air	amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. ACGIH Threshold Limit Values, as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)  US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)





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Magnesium oxide - Inhalable	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as
fraction.			amended (2011)
Magnesium oxide - Total	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
particulate.			Contaminants (29 CFR 1910.1000), as
			amended (02 2006)
Magnesium oxide -	TWA	15 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
Respirable fraction.		particles per	amended (03 2016)
		cubic foot of	
		air	
Magnesium oxide - Total	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
dust.			amended (03 2016)
	TWA	50 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
		particles per	amended (03 2016)
		cubic foot of	, ,
		air	
Magnesium oxide -	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
Respirable fraction.		3	amended (03 2016)
Amorphous silica	TWA	20 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
,		particles per	amended (2000)
		cubic foot of	
		air	
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
		g	amended (2000)
Glycol ether solvent -	TWA	10 ppm	US. ACGIH Threshold Limit Values, as
Inhalable fraction and vapor.		- 11	amended (03 2013)
Titanium dioxide	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as
			amended (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
Thailian alexade Total adeli		.cg,c	Contaminants (29 CFR 1910.1000), as
			amended (02 2006)
Titanium dioxide - Respirable	TWA	15 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
fraction.	1 1 1 1 1	particles per	amended (03 2016)
naodon.		cubic foot of	amended (66 26 16)
		air	
Titanium dioxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
Thailian dioxido Total dust.	. ***	10 1119/1110	amended (03 2016)
Titanium dioxide - Respirable	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as
fraction.	1 4 4 7	5 mg/m3	amended (03 2016)
Titanium dioxide - Total dust.	TWA	50 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000), as
Titalium dioxide - Total dust.	1 1 1 1	particles per	amended (03 2016)
		cubic foot of	
		air	
	1	air	I .

Chemical name	Туре	Exposure Limit Values	Source
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
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 the Quality of the Work Environment), as amended (09 2017)
Calcium Carbonate (Limestone) - Total dust.	STEL	20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)



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Calcium Carbonate (Limestone) - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Calcium salt	TWA	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)
Calcium salt - Inhalable	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium salt - Inhalable fraction.	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Calcium salt - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Calcium salt - Respirable dust.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Portland cement - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Portland cement - Respirable dust.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Portland cement - Respirable.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical 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)
Fumed silica - Total fume.	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Fumed silica - Respirable fume.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Fumed silica - Respirable fraction.	TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Fumed silica - Respirable dust and/or fume.	TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Calcium oxide	TWA	2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium oxide	TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Calcium oxide	TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)

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Chemical name	Туре	Exposure Limit Values	Source
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
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 the Quality of the Work Environment), as amended (09 2017)
Calcium oxide	TWA	2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium oxide	TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Calcium oxide	TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Portland cement - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Portland cement - Respirable dust.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Portland cement - Respirable.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical 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)
Aluminum oxide - Respirable.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Aluminum oxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Aluminum oxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Aluminum oxide - Respirable fraction.	TWA	1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Aluminum oxide - Inhalable fraction.	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Aluminum oxide - Respirable fraction.	TWA	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Aluminum oxide - Total dust. - as Al	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Silica, fused - Respirable fraction.	TWA	0.1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Silica, fused - Respirable dust.	TWA	0.1 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Aluminum Sulfate	TWA	2 mg/m3	Canada. Alberta OELs (Occupational Health &

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(Anhydrous) - as Al			Safety Code, Schedule 1, Table 2), as amended (07 2009)
Aluminum Sulfate (Anhydrous) - Respirable.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Aluminum Sulfate (Anhydrous) - Respirable fraction.	TWA	1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Aluminum Sulfate (Anhydrous) - as Al	TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Iron oxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Iron oxide - Dust as Fe	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)
Iron oxide - Fume as Fe	STEL	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Iron oxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Iron oxide - Fume as Fe	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)
Iron oxide - Respirable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Iron oxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Iron oxide - Dust and fume as Fe	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Dolomite - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Dolomite - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Dolomite - Respirable fraction.	TWA	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Dolomite - Inhalable fraction.	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Dolomite - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Magnesium oxide - Respirable dust and/or fume. - as Mg	STEL	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Magnesium oxide - Inhalable fume.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Magnesium oxide -	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational



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Respirable dust and/or fume as Mg			Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Magnesium oxide - Inhalable fraction.	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Magnesium oxide - Fume as Mg	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Amorphous silica - Total	TWA	4 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable.	TWA	1.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Amorphous silica - Respirable dust.	TWA	6 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Glycol ether solvent - Inhalable fraction and vapor.	TWA	10 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Manganese - as Mn	TWA	0.2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Manganese - Fume, total dust as Mn	TWA	0.2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Manganese - Respirable as Mn	TWA	0.02 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2018)
Manganese - Total - as Mn	TWA	0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2018)
Vinyl acetate	TWA	10 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	15 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Vinyl acetate	TWA	10 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
	STEL	15 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)



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Vinyl acetate	STEL	15 ppm 53 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work
	TWA	10 ppm 35 mg/m3	Environment), as amended (09 2017)  Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Beryllium - as Be	TWA	0.00015 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)
Beryllium - Inhalable - as Be	TWA	0.00005 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2017)
Beryllium - Inhalable fraction. - as Be	TWA	0.00005 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)
Cadmium - as Cd	TWA	0.01 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Cadmium - Respirable as Cd	TWA	0.002 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Cadmium - as Cd	TWA	0.01 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Cadmium - Respirable fraction as Cd	TWA	0.002 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)
Cadmium - as Cd	TWA	0.025 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 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

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

(or goggles) and a face shield.

**Skin Protection** 

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

Other: Wear suitable protective clothing. 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. Do not eat, drink or smoke

when using the product. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Contaminated work clothing should not be allowed out of the workplace.

Avoid contact with skin.

### 9. Physical and chemical properties

**Appearance** 

Physical state: solid
Form: Powder
Color: Gray
Odor: Odorless

Odor threshold:

pH:

No data available.

Flash Point:

No data available.

No data available.

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 (%):

No data available.

No data available.

Vapor pressure:

Vapor density:

No data available.

Relative density: 2.90

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:** No data available.

**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:** May be harmful in contact with skin. May cause an allergic skin reaction.

**Eye contact:** Causes serious eye damage.

**Ingestion:** 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: 1,773.16 mg/kg

**Dermal** 

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

Specified substance(s):

Calcium oxide LD 50 (Rabbit): > 2,500 mg/kg

Aluminum Sulfate

(Anhydrous)

LD 50 (Rabbit): > 5,000 mg/kg

Glycol ether solvent LD 50 (Rabbit): 2,764 mg/kg

Inhalation

**Product:** ATEmix: 13.57 mg/l



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Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Specified substance(s):

Calcium oxide in vivo (Rabbit): Irritating

Aluminum oxide in vivo (Rabbit): Not irritant

Aluminum Sulfate

(Anhydrous)

in vivo (Rabbit): corrosive: Aluminium sulphate has a slightly corrosive effect

Iron oxide in vivo (Rabbit): Not irritant

Glycol ether solvent in vivo (Rabbit): Slightly irritating

Titanium dioxide in vivo (Rabbit): Not irritant

Serious Eye Damage/Eye Irritation

**Product:** No data available.

Specified substance(s):

Aluminum oxide Rabbit, 24 hrs: Not irritating

Aluminum Sulfate

(Anhydrous)

Rabbit, 1 - 3 d: Category 2A

Glycol ether solvent Rabbit, 24 - 72 hrs: Highly irritating

Titanium dioxide Rabbit, 24 hrs: Not irritating

Respiratory or Skin Sensitization

**Product:** No data available.

Carcinogenicity

**Product:** No data available.



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#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Crystalline Silica

Overall evaluation: Carcinogenic to humans.

(Quartz)/ Silica

Sand

Titanium dioxide Overall evaluation: Possibly carcinogenic to humans.

#### **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):

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** 

Specific Target Organ Toxicity - Repeated Exposure: Lung

**Aspiration Hazard** 

**Product:** No data available.

Other effects: No data available.



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# 12. Ecological information

#### **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

Aluminum Sulfate (Anhydrous)

LC 50 (Danio rerio, 96 h): 9.4 mg/l Read-across based on grouping of

substances (category approach), Key study

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 3.4 - 5.6 mg/l

Mortality

Glycol ether solvent LC 50 (Bluegill (Lepomis macrochirus), 96 h): 1,300 mg/l Mortality

**Aquatic Invertebrates** 

**Product:** No data available.

Specified substance(s):

Aluminum Sulfate (Anhydrous)

EC 50 (Daphnia magna, 48 h): 47.5 mg/l Read-across based on grouping of

substances (category approach), Key study

LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 20.61 - 26.65 mg/l Mortality

Titanium dioxide EC 50 (Water flea (Daphnia magna), 48 h): > 1,000 mg/l Intoxication

#### Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

#### **Persistence and Degradability**

**Biodegradation** 

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.



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Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

Specified substance(s):

Glycol ether solvent Log Kow: 0.56

Mobility in soil: No data available.

Other adverse effects: Harmful 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:

Not Regulated

CFR / DOT:

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. 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.



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

Chemical IdentityOSHA hazard(s)Crystalline Silicakidney effects(Quartz)/ Silica Sandlung effects

immune system effects

Cancer

Beryllium beryllium sensitization

skin, eye, and respiratory tract irritation

Skin sensitization

lung effects (CBD and acute beryllium disease)

Cancer

Cadmium Acute toxicity

Lung Kidney Cancer

5000 lbs.

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

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

Aluminum Sulfate

(Anhydrous)

Vinyl acetate 5000 lbs.
Beryllium 10 lbs.
Cadmium 10 lbs.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

# **Hazard categories**

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Acute toxicity (any route or exposure)

Skin Corrosion or Irritation

Serious eye damage or eye irritation Respiratory or Skin Sensitization

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

#### **SARA 302 Extremely Hazardous Substance**

Reportable

<u>Chemical Identity</u> <u>quantity</u> <u>Threshold Planning Quantity</u>

Vinyl acetate 5000 lbs. 1000 lbs.

# SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

# SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Vinyl acetate 500lbs

### SARA 313 (TRI Reporting)

Chemical Identity
Aluminum oxide



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

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

Vinyl acetate lbs

# Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical IdentityReportable quantityAluminum SulfateReportable quantity: lbs.(Anhydrous)

#### **US State Regulations**

#### **US.** California Proposition 65



#### WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

#### **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand

Calcium oxide

Portland cement

Aluminum oxide

Silica, fused

Aluminum Sulfate (Anhydrous)

Iron oxide

#### **US. Massachusetts RTK - Substance List**

#### **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand

Calcium oxide

Portland cement

Aluminum oxide

Silica, fused

Aluminum Sulfate (Anhydrous)

Iron oxide

Vinyl acetate

#### US. Pennsylvania RTK - Hazardous Substances

#### **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand

Calcium oxide

Portland cement

Aluminum oxide

Silica, fused

Aluminum Sulfate (Anhydrous)

Iron oxide



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#### **US. Rhode Island RTK**

#### **Chemical Identity**

Crystalline Silica (Quartz)/ Silica Sand Calcium oxide Portland cement Aluminum oxide Silica, fused Iron oxide

# 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: 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 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.



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

**Revision Date:** 11/25/2019

Version #: 3.0

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.