



Version: 3.0 Revision Date: 06/23/2017

SAFETY DATA SHEET

1. Identification

Material name: EUCOFLOOR SL160 - 50# BAG Material: 407SL150 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: Telephone: Emergency telephone number: EH&S Department 216-531-9222 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards Category 4 Acute toxicity (Oral) Category 4 Acute toxicity (Inhalation - dust and mist) Category 4 Serious Eye Damage/Eye Irritation Category 1 Skin sensitizer Category 1 Carcinogenicity Category 1A Specific Target Organ Toxicity - Repeated Exposure Category 1^{1.}

Target Organs

1. Lung

Unknown toxicity - Health

Acute toxicity, oral	79.87 %
Acute toxicity, dermal	87.76 %
Acute toxicity, inhalation, vapor	100 %
Acute toxicity, inhalation, dust	89.04 %
or mist	

Label Elements

Hazard Symbol:



Signal Word:	Danger
Hazard Statement:	Harmful if swallowed or if inhaled. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. Causes damage to organs through prolonged or repeated exposure.
Precautionary Statements	
Prevention:	Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. 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. Do not breathe dust/fume/gas/mist/vapors/spray.
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 water/ If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth. Immediately call a POISON CENTER/doctor/ Specific treatment (see 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.
azard(s) not otherwise lassified (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%
Trade Secret	Trade Secret	10 - <20%



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Portland cement	65997-15-1	5 - <10%
Calcium Carbonate (Limestone)	1317-65-3	5 - <10%
Calcium salt	7778-18-9	5 - <10%
Magnesite	546-93-0	0.1 - <1%

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

4. First-aid measures			
Ingestion:	Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth.		
Inhalation:	Move to fresh air.		
Skin Contact:	If skin irritation occurs: Get medical advice/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.		
Most important symptoms/effects, acute and delayed			
Symptoms:	Extreme irritation of eyes and mucous membranes, including burning and tearing.		
Indication of immediate medical a	attention and special treatment needed		
Treatment:	Symptoms may be delayed.		
5. Fire-fighting measures			
General Fire Hazards:	No unusual fire or explosion hazards noted.		
Suitable (and unsuitable) extinguishing media			
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.		
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters			
Special fire fighting procedures:	No data available.		



Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	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.
Methods and material for containment and cleaning up:	Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
7 Llondling and storage	
7. Handling and storage	
Precautions for safe handling:	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. 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.

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 (2011)
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) (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
	OSHA_AC T	0.025 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (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) (03 2016)
Portland cement - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2011)



Portland cement - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
Portland cement - Respirable	PEL	5 mg/m3	Contaminants (29 CFR 1910.1000) (02 2006) US. OSHA Table Z-1 Limits for Air
fraction.	FEL	5 119/115	Contaminants (29 CFR 1910.1000) (02 2006)
Portland cement	TWA	50 millions of	US. OSHA Table Z-3 (29 CFR 1910.1000)
		particles per	(2000)
		cubic foot of	(2000)
		air	
Calcium Carbonate	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Total dust.		-	Contaminants (29 CFR 1910.1000) (02 2006)
Calcium Carbonate	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
(Limestone) - Respirable		-	Contaminants (29 CFR 1910.1000) (02 2006)
fraction.			
Calcium salt - Total	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical
			Hazards (2010)
Calcium salt - Respirable.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical
			Hazards (2010)
Calcium salt - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
			(1989)
Calcium salt - Respirable	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
fraction.			(1989)
Calcium salt - Total dust.	TWA	15 mg/m3	US. Tennessee. OELs. Occupational Exposure
			Limits, Table Z1A (06 2008)
Calcium salt - Respirable	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure
fraction.			Limits, Table Z1A (06 2008)
Calcium salt	AN ESL	5 µg/m3	US. Texas. Effects Screening Levels (Texas
			Commission on Environmental Quality) (03 2014)
	ST ESL	50 µg/m3	US. Texas. Effects Screening Levels (Texas
	STESE	50 µg/115	Commission on Environmental Quality) (03
			2014)
Calcium salt - Inhalable	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2011)
fraction.		To highlio	
Calcium salt - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
		g g	Contaminants (29 CFR 1910.1000) (02 2006)
Calcium salt - Respirable	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
fraction.		5	Contaminants (29 CFR 1910.1000) (02 2006)
Magnesite - Total dust.	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
-		Ũ	Contaminants (29 CFR 1910.1000) (02 2006)
Magnesite - Respirable	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
fraction.		-	Contaminants (29 CFR 1910.1000) (02 2006)



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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) (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) (12 2008)
Portland cement - 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)
Portland cement - 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)
Portland cement - Respirable fraction.	TWA	1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Portland cement - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Portland cement - Respirable dust.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
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)
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) (12 2008)
Calcium salt	TWA	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (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) (11 2010)
Calcium salt - Total dust.	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Calcium salt - Respirable dust.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

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.
Respiratory Protection:	Contact health and safety professional or manufacturer for specific

9. Physical and chemical properties

Appearance

Physical state:	solid
Form:	Powder
Color:	Gray
Odor:	Odorless
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosiv	e limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.



Vapor density: Relative density:	No data available. 2.85	
Solubility(ies) Solubility in water:	Miscible with water.	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/w	vater): 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 Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.	
11. Toxicological information		

Information on likely routes of Inhalation:	exposure In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
Skin Contact:	May be harmful in contact with skin. Causes mild skin irritation. 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: 1,970.14 mg/kg	
Dermal Product:	ATEmix: 2,233.5 mg/kg	
Inhalation Product:	ATEmix: 1.9 mg/l	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	
Specified substance(s): Trade Secret	in vivo (Rabbit): Not irritant Experimental result, Key study	
Calcium salt	in vivo (Rabbit): Not irritant Experimental result, Key study	
Magnesite	In vitro (Human, in vitro reconstituted epidermis model): Not irritant Experimental result, Key study	
Serious Eye Damage/Eye Irritatio	on No data available	

Product: Specified substance(s):	No data available.
Calcium salt	Rabbit, 72 hrs: Not irritating
Magnesite	Reconstituted Corneal Epithelium model, 10 min: Not irritating
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	Overall evaluation: Carcinogenic to humans.
US. Nationa		m (NTP) Report on Carcinogens: Known To Be Human Carcinogen.
US. OSHA S		ed Substances (29 CFR 1910.1001-1050):
	Crystalline Silica (Quartz)/ Silica Sand	Cancer
Germ Cell N	lutagenicity	
In vitro Produ	ct:	No data available.
In vivo Produ	ct:	No data available.
Reproductiv Product		No data available.
Specific Tar Product	rget Organ Toxicity :	- Single Exposure No data available.
Specific Tar Produ		- Repeated Exposure No data available.
Target Organs Specific Target Organ Toxicity - Repeated Exposure: Lung		
Aspiration I Product		No data available.
Other effec	:ts:	No data available.



12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): Calcium salt	LC 50 (Fathead minnow (Pimephales promelas), 96 h): > 1,970 mg/l Mortality
Aquatic Invertebrates Product:	No data available.
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 (BC Product:	F) No data available.
Partition Coefficient n-octanol / w Product:	ater (log Kow) No data available.
Mobility in soil:	No data available.
Other adverse effects:	No data available.



13. Disposal considerations	3
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDG:	
Not Regulated	
CFR / DOT:	
Not Regulated	

IMDG:

Not Regulated

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

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

Chemical Identity
Crystalline Silica
(Quartz)/ Silica Sand

OSHA hazard(s) kidney effects lung effects immune system effects

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Cancer

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Acute toxicity Serious Eye Damage/Eye Irritation Skin sensitizer Carcinogenicity Specific Target Organ Toxicity - Repeated Exposure



SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Crystalline Silica (Quartz) / 10000 lbs

Crystalline Sliica (Quartz)/	2010001	
Silica Sand		
Trade Secret	10000 lbs	
Portland cement	10000 lbs	
Calcium Carbonate	10000 lbs	
(Limestone)		
Calcium salt	10000 lbs	
Magnesite	10000 lbs	

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

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

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm. Crystalline Silica (Quartz)/ Carcinogenic. 09 2011 Silica Sand Lithium carbonate Developmental toxin. 09 2011

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

Chemical Identity

Crystalline Silica (Quartz)/ Silica Sand Portland cement Calcium Carbonate (Limestone) Calcium salt

US. Massachusetts RTK - Substance List

<u>Chemical Identity</u> Crystalline Silica (Quartz)/ Silica Sand Portland cement Calcium Carbonate (Limestone) Calcium salt



US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Crystalline Silica (Quartz)/ Silica Sand Portland cement Calcium Carbonate (Limestone) Calcium salt

US. Rhode Island RTK

Chemical Identity

Crystalline Silica (Quartz)/ Silica Sand Portland cement Calcium Carbonate (Limestone)

International regulations

Montreal protocol

not applicable

Stockholm convention

not applicable

Rotterdam convention

not applicable

Kyoto protocol

not applicable

VOC:

Regulatory VOC (less water and exempt solvent)	:	0 g/l
VOC Method 310	:	0.00 %



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.



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

Revision Date:	06/23/2017
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.