

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/30/2020

Reviewed on 11/30/2020

1 Identification

- Product Identifier
- · Trade Name: Feldspar
- · Product Number:

Custer Feldspar, Custer Spar, 2mm, P-2mm, Medium Chip, Crude, P-30M, 200 Mesh, P-200M, 325 Mesh, P-325M, P-325F

- Relevant identified uses of the substance or mixture and uses advised against:
- Product Description:

Various commercial and industrial uses not limited to Ceramics, Concrete, Sanitaryware, Tableware, Ceramic Glazes, Fiberglass, Coatings, Rubber, Adhesives, Caulks, Sealants, Abrasives, Glass, etc...

• Details of the Supplier of the Safety Data Sheet:

 Manufacturer/Supplier: Pacer Minerals, LLC
 25429 US HWY 385
 Custer, SD 57730
 Fax: 605-673-4459
 Email: orders@pacerminerals.com
 Website: www.pacerminerals.com
 For product information and non-emergency questions call: Pacer Minerals, LLC's Customer Service Number 1-800-568-2492
 Emergency telephone number:

Chemtrec (US): (800) 424-9300 Chemtrec (Outside US): (703) 527-3887 (Collect calls accepted)

2 Hazard(s) Identification

· Classification of the substance or mixture:



Resp. Sens. 1B H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Carc. 1A H350 May cause cancer.
STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.



Skin Irrit. 2H315 Causes skin irritation.STOT SE 3H335 May cause respiratory irritation.Eye Irrit. 2BH320 Causes eye irritation.

· Label elements:

· Hazard pictograms:



· Signal word: Danger

• *Hazard-determining components of labeling:* Feldspar



Page 2/11

Reviewed on 11/30/2020

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/30/2020

Trade Name: Feldspar

Quartz (SiO2)

- · Hazard statements:
- H315+H320 Causes skin and eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H350 May cause cancer.
- H335 May cause respiratory irritation.
- H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

· Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 [In case of inadequate ventilation] wear respiratory protection.
- P302+P352 If on skin: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a poison center/doctor if you feel unwell.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P314 Get medical advice/attention if you feel unwell.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P342+P311 If experiencing respiratory symptoms: Call a poison center/doctor.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

- 0 % of the mixture consists of component(s) of unknown toxicity.
- Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

• NFPA ratings (scale 0 - 4)

Health = 1 Fire = 0 Reactivity = 0

• HMIS-ratings (scale 0 - 4)

HEALTH1FIRE0Fire = 0REACTIVITY0Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/30/2020

Page 3/11

Trade Name: Feldspar

Reviewed on 11/30/2020

Composition/Information on Ingredients

· Chemical characterization: Substance

· Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous Components: CAS: 68476-25-5 Feldspar 75-85% Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320 CAS: 14808-60-7 Quartz (SiO2) 15-25% RTECS: VV 7330000 🚸 Carc. 1A, H350; STOT RE 1, H372; 🚸 Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320 · Additional information: The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

First-Aid Measures

Description of first aid measures

· General information:

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

If symptoms persist, call a physician.

• After inhalation:

If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. Get medical attention immediately.

Supply fresh air.

In case of unconsciousness place patient stably in the side position for transportation.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

• After eve contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

• After swallowing: If swallowed and symptoms occur, consult a doctor.

Information for doctor

• Most important symptoms and effects, both acute and delayed:

Quartz: Can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death; inhaled from occupational sources is classified as carcinogenic to humans. Some studies show in workers exposed to respirable quartz excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease, chronic bronchitis and emphysema.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture: No further relevant information available.

(Contd. on page 4)



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/30/2020

Trade Name: Feldspar

• Advice for firefighters

• Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

Protective Action Criteria for Chemicals

 Protective Action Citeria for Chemicals

 PAC-1:

 14808-60-7
 Quartz (SiO2)

 PAC-2:

 14808-60-7
 Quartz (SiO2)

 * PAC-3:

 14808-60-7
 Quartz (SiO2)

 200 mg/m³

· Handling

• Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

• Additional information about design of technical systems: No further data; see section 7.

• Control parameters:

Components with occupational exposure limits:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituents have no known exposure limits.

14808-60-7 Quartz (SiO2)

PEL Long-term value: 0.05* mg/m³

*resp. dust; 30mg/m3/%SiO2+2

(Contd. on page 5)

Reviewed on 11/30/2020



Page 5/11

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/30/2020

Trade Name: Feldspar

Reviewed on 11/30/2020

- REL Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
- TLV Long-term value: 0.025* mg/m³ *as respirable fraction
- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing and wash before reuse. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not inhale dust / smoke / mist.
- · Breathing equipment:



NIOSH/OSHA approved breathing apparatus.

Protection of hands:



Protective gloves

• Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

• Eye protection:



Tightly sealed goggles

· Limitation and supervision of exposure into the environment: None

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information
- Appearance: Form:
- Color:
- · Odor:
- Odor threshold:

· pH-value @ 20 °C (68 °F):

Rocks, chips, granules or powder White to tan Odorless Not determined.

8

(Contd. on page 6)



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/30/2020

Trade Name: Feldspar

Reviewed on 11/30/2020

 Change in condition Melting point/Melting range: 	Not determined.
· Flash point:	None
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	Not applicable
• Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
 Explosion limits: Lower: Upper: 	Not determined. Not determined.
· Vapor pressure:	Not applicable.
 Density @ 20 °C (68 °F): Relative density: Vapor density: Evaporation rate: 	2.6 g/cm³ (21.697 lbs/gal) Not determined. Not applicable. Not applicable.
 Solubility in / Miscibility with: Water: 	Soluble.
· Partition coefficient (n-octanol/water	<i>):</i> Not determined.
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.
 Solvent content: VOC content: 	0.00 %
Solids content:	100.0 %
· Other information:	No further relevant information available.
10 Stability and Reactivity	

· *Reactivity:* No further relevant information available.

· Chemical stability: Product is stable under normal conditions.

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.

· Incompatible materials:

Contact with fluorine, oxygen dilfuoride, and chlorine trifluoride will cause fire.

Silicates react with powder oxidizers such as boron trifluoride and manganese trifluoride.

· Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 7)



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/30/2020

Reviewed on 11/30/2020

Trade Name: Feldspar

1 Toxicological Information

· Information on toxicological effects:

· Acute toxicity:

14808-60-7 Quartz (SiO2)

Oral	LD50	>22,500 mg/kg (Rat)
		mg/kg (Rabbit)
Inhalative	LC50/96 hours	1,033 mg/l (Trout)

· Primary irritant effect:

- On the skin: Irritant to skin and mucous membranes.
- On the eye: Irritating effect.
- Sensitization: Sensitization possible through inhalation.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful Irritant

· Carcinogenic categories:

· IARC (International Agency for Research on Cancer):

"In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicate dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis will also reduce the cancer risk." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled"

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

14808-60-7 Quartz (SiO2)

• NTP (National Toxicology Program):

14808-60-7 Quartz (SiO2)

• OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

(Contd. on page 8)

1

Κ



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/30/2020

Trade Name: Feldspar

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:

14808-60-7 Quartz (SiO2)

- EC50 218 mg/l (Green algae)
- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment:
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

3 Disposal Considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

· Uncleaned packaging

- *Recommendation:* Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport Information

 UN-Number: DOT, ADR/ADN, IMDG, IATA UN proper shipping name: DOT, ADR/ADN, IMDG, IATA Transport hazard class(es): 	Non-Regulated Material Non-Regulated Material	
· DOT, ADR/ADN, ADN, IMDG, IATA		
· Class:	Non-Regulated Material	
· Packing group:	5	
· DOT, ADR/ADN, IMDG, IATA	Non-Regulated Material	
Environmental hazards:	Not applicable.	
 Special precautions for user: 	Not applicable.	
Transport in bulk according to Annex II o	of	
MARPOL73/78 and the IBC Code:	Not applicable.	
• UN "Model Regulation":	Non-Regulated Material	
		(Contd. on page 9)

Reviewed on 11/30/2020



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/30/2020

Reviewed on 11/30/2020

Trade Name: Feldspar

15 Regulatory Information

- Safety, health and environmental regulations/legislation specific for the substance or mixture: • SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients are listed.

• California Proposition 65:



WARNING: This product can expose you to chemicals including the listed chemicals which are known to the State of California to cause cancer, birth defects and/or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

hemicals known to cause cancer:	
4808-60-7 Quartz (SiO2)	
hemicals known to cause reproductive toxicity for females:	
one of the ingredients are listed.	
hemicals known to cause reproductive toxicity for males:	
one of the ingredients are listed.	
hemicals known to cause developmental toxicity:	
one of the ingredients are listed.	
ew Jersey Right-to-Know List:	
4808-60-7 Quartz (SiO2)	
ew Jersey Special Hazardous Substance List:	
4808-60-7 Quartz (SiO2)	C
ennsylvania Right-to-Know List:	
4808-60-7 Quartz (SiO2)	
ennsylvania Special Hazardous Substance List:	
one of the ingredients are listed.	
arcinogenic categories:	
PA (Environmental Protection Agency):	
one of the ingredients are listed.	
LV (Threshold Limit Value established by ACGIH):	
Ev (Threshold Ennit value established by Acom).	•
4808-60-7 Quartz (SiO2)	A
• • •	A

Page 9/11



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/30/2020

Reviewed on 11/30/2020

Page 10/11

Trade Name: Feldspar

· Hazard pictograms:



Signal word: Danger

•	
	ning components of labeling:
Feldspar	
Quartz (SiO2)	
· Hazard stateme	
	ses skin and eye irritation.
	cause allergy or asthma symptoms or breathing difficulties if inhaled.
	r cause cancer.
	cause respiratory irritation.
	ises damage to the lung through prolonged or repeated exposure. Route of exposure: ilation.
 Precautionary s 	tatements:
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P33	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P314	Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a poison center/doctor.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

6 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.



OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 11/30/2020

Trade Name: Feldspar

Reviewed on 11/30/2020

· Contact:

· Date of last revision/ revision number: 11/30/2020 / 3 · Abbreviations and acronyms: ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety & Health Administration TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B Resp. Sens. 1B: Respiratory sensitisation - Category 1B Carc. 1A: Carcinogenicity – Category 1A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1 * Data compared to the previous version altered. SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106