

Safety Data Sheet

Prepared in accordance with Commission Regulation (EU) 2015/830



Item Code: SILICA REFRACTORIES

Revision Date: 21-04-2020

Revision Number: 3

This document replaces SDS dated: 11-11-2019

SILICA REFRACTORIES

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier: SILICA REFRACTORIES

Other means of identification:

Synonyms: None

REACH Registration No.: Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: Refractory insulation

Uses advised against: Uses other than those described above.

1.3 Details of the Supplier of the Safety Data Sheet:

Allied Mineral Products, LLC

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Columbus, OH 43221

Telephone: (614)-876-0244

E-Mail of person responsible for SDS:

sdsinfo@alliedmin.com:

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Fabricados no Brasil para Allied Mineral Products, Inc.

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Telephone: +55-35-2101-2222:

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1.4 Emergency telephone number: CHEMTREC: (800) 424-9300
Poison Centre contact information: Nationaal Vergiftigingen Informatie Centrum (NVIC)
030-274-8888 (Alleen voor professionele hulpverleners en medisch personeel in geval van acute of onbedoelde vergiftigingen)

Beaumont Hospital - National Poisons Information Centre
Beaumont Road, Dublin 9
Tel: +353 1 8092566
Email: npicdublin@beaumont.ie
Website: www.poisons.ie

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]: Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP]:

Hazard pictograms:



Signal Word: Danger

Hazard Statements: H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P314 - Get medical advice/attention if you feel unwell.
P270 - Do not eat, drink or smoke when using this product.

Supplemental Hazard information (EU): None Known

2.3 Other hazards: This product also contains nuisance dust. Although the nuisance dust contains no additional hazards, appropriate PPE should be used.

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SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Chemical Name	%	CAS #	EC No. REACH Registration No.	Classification (EC) No 1272/2008	M Factor	SCL
Silica, Crystalline quartz (respirable)	5 - 10	14808-60-7	238-878-4 01- 2120770509- 45-****	STOT RE 1; H372	No data available	No data available
Silica, Crystalline quartz (non-respirable)	80 - 99	14808-60-7	238-878-4 01- 2120770509- 45-****	Not classified	No data available	No data available
Non Hazardous components *	Balance	Not applicable	Not applicable	Not classified	Not applicable	Not applicable

* The non hazardous ingredients percentage includes the components that are hazardous but below the threshold for GHS classification. In the case where there are no hazardous components, the percentage of non hazardous ingredients will be 100%.

For full text of H-statements see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

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Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
Skin Contact:	Wash with soap and water. Seek medical attention if irritation develops or persists.
Ingestion:	No hazard expected under normal industrial use. If swallowed, seek medical attention.
Self protection of the first aider:	Practice universal precaution and use PPE as appropriate.
4.2 Most important symptoms and effects, both acute and delayed:	Causes damage to organs through prolonged or repeated exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Get medical attention if you feel unwell.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Use methods suitable to fight surrounding fire.

Unsuitable extinguishing media: None Known

5.2 Special hazards arising from the substance or mixture: This product is noncombustible and will not ignite or contribute to the intensity of a fire.

Hazardous Combustion Products: Not applicable

5.3 Advice for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Non-emergency personnel: Non-emergency personnel should be kept clear of the area

Emergency responders: Personal Protective Equipment should be worn as indicated in Section 8.

6.2 Environmental precautions: Prevent contamination of soil, drains and surface water.

6.3 Methods and material for containment and cleaning up:

Small spills: Refer to information provided for large spills

Large spills: Vacuum or sweep up material and place in a disposal container. Avoid dust generation. Exhaust ventilation is recommended to maintain airborne dust concentrations below regulatory exposure levels. Consult individual operating permits for allowable air emissions. Dusts of as-manufactured refractory product have a low order of aquatic toxicity, are insoluble, and are not very mobile. Based upon this information, it is not believed to be a

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significant threat to the environment if accidentally released into water. Dusts of as-manufactured refractory product are not believed to be a significant threat to the environment if accidentally released on land. Dust and material generated during maintenance and tear-out operations may be contaminated with other hazardous substances (e.g., metals & alkaline materials). Evaluation of dust and material from specific processes should be performed to determine if an environmental threat exists in the case of a release. Clean up using methods which avoid dust generation. Compressed air should not be used to clean up spills. Wear appropriate personal protective equipment. Collect material in a compatible and appropriately labeled container. Dispose of material from processing, installation, maintenance, or tear-out operations in accordance with applicable regulations.

6.4 Reference to other sections: Refer to section 13 for disposal information

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Steam spalling, which can lead to personal injury, may result from improper drying and firing procedures. For safest use and optimum performance, proper practices must be followed.

7.2 Conditions for safe storage, including any incompatibilities:

Conditions for safe storage: Store in a dry area.

Materials to Avoid/Chemical Incompatibility: Strong acids, bases, oxidizing agents.

7.3 Specific end use(s): Refractory insulation

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Occupational Exposure limit values:

Chemical Name	United Kingdom - Workplace Exposure Limits (WELs) - TWAs	United Kingdom - Workplace Exposure Limits (WELs) - STELs	United Kingdom - Biological Monitoring Guidance Values
Silica, Crystalline quartz (non- respirable)	0.1 MG/M3 TWA	0.3 mg/m3 STEL (calculated, respirable)	No data available
Silica, Crystalline quartz (respirable)	0.1 MG/M3 TWA	0.3 mg/m3 STEL (calculated, respirable)	No data available

DNEL: None Known

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PNEC: None Known

8.2 Exposure controls:

Appropriate engineering controls: Local exhaust ventilation may be necessary to control any air contaminants to within their exposure limits during the use of this product.

Individual protection measures, such as personal protective equipment:

Eye and face protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection:

Hand protection: The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and type of use. Gloves should be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Other skin protection: Do not eat, drink or smoke when using this product.

Respiratory Protection: Recommend chest X-rays and yearly vital capacity tests for employees regularly exposed to silica for early detection of silicosis. Comply with all guidelines for crystalline silica exposure.

Respirator Type(s):

If it is not possible to reduce airborne exposure levels to below the exposure limits with ventilation, use the table below to assist you in selecting respirators that will reduce personal exposures to below the exposure limits.

The assigned protection factor (APF) is the minimum anticipated level of protection provided by each type of respirator worn in accordance with an adequate respiratory protection program. For example, an APF of 10 means that the respirator should reduce the airborne concentration of a particulate by a factor of 10, so that if the workplace concentration of a particulate was 150 ug/m³, then a respirator with an APF of 10 should reduce the concentration of particulate to 15 ug/m³.

Assigned Protection Factor	Type of Respirator
10	Any air-purifying elastomeric half-mask respirator equipped with appropriate type of particulate filter. Appropriate filtering facepiece respirator. Any air-purifying full facepiece respirator equipped with appropriate type of particulate filter. Any negative pressure (demand) supplied-air respirator equipped with a half-mask.
25	Any powered air-purifying respirator equipped with a hood or helmet and a high efficiency (HEPA) filter. Any continuous flow supplied-air respirator equipped with a hood or helmet.
50	Any air-purifying full facepiece respirator equipped with N-100, R-100, or P-100 filter(s).

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	Any powered air-purifying respirator equipped with a tight-fitting facepiece (half or full facepiece) and a high-efficiency filter. Any negative pressure (demand) supplied-air respirator equipped with a full facepiece. Any continuous flow supplied-air respirator equipped with a tight-fitting facepiece (half or full facepiece). Any negative pressure (demand) self-contained respirator equipped with a full facepiece.
1000	Any pressure-demand supplied-air respirator equipped with a half-mask.

Thermal Hazards: Not applicable

Environmental exposure controls: Avoid runoff into storm sewers and ditches that lead to waterways.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Granular solid
Colour:	Off-white to dark gray
Odour:	No Odor
Odour threshold:	No data available
pH:	Not applicable
Melting Point/Freezing Point (°F):	
Melting point (°F):	> 2000 °F (> 1100 °C)
Freezing point (°F):	Not applicable
Initial boiling point and boiling range (°C):	Not applicable
Flash point (°F):	Not applicable
Evaporation Rate (water = 1):	No data available
Flammability (solid, gas):	Non-flammable
Upper/lower flammability or explosive limits:	
Upper flammable or explosive limit, % in air:	Not applicable
Lower flammable or explosive limit, % in air:	Not applicable
Vapour pressure:	Not applicable
Vapor Density (Air=1):	Not applicable
Relative density (water = 1):	2 to 3.5 g/cc

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Solubility(ies): < 3%
Partition coefficient: n-octanol/water: Not applicable
Auto-ignition temperature (°C): Not applicable
Decomposition temperature (°C): Not applicable
Viscosity (B-type viscometer @ 60 rpm): Not applicable
Explosive properties: Not applicable
Oxidizing properties: Not applicable

9.2 Other information:

Volatile Organic Chemicals: Not established
Bulk density: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity: Not expected to be reactive
10.2 Chemical stability: Stable under normal conditions.
10.3 Possibility of hazardous reactions: None expected under standard conditions of storage
10.4 Conditions to avoid: Not applicable
10.5 Incompatible materials: Strong acids, bases, oxidizing agents.
10.6 Hazardous decomposition products: Not applicable

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:

Chemical Name	ORAL LD50 (rat)	DERMAL LD50 (rabbit)	INHALATION LC50 (rat)
No data available			

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

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Respiratory or skin sensitisation:

SILICOSIS- The major concern is silicosis, caused by the inhalation and retention of respirable crystalline silica dust. Silicosis can exist in several forms, chronic (or ordinary), and accelerated (or acute). Chronic or Ordinary Silicosis is the most common form of silicosis, and can occur after many years of exposure to relatively low levels of airborne respirable crystalline silica dust. It is further defined as either simple or complicated silicosis. Simple Silicosis is characterized by lung lesions (shown as radiographic opacities) less than 1 centimeter in diameter, primarily in the upper lung zones. Often, simple silicosis is not associated with symptoms, detectable changes in lung function, or disability. Simple silicosis may be progressive and may develop into complicated silicosis or progressive massive fibrosis (PMF). Complicated Silicosis or PMF is characterized by lung lesions (shown as radiographic opacities) greater than 1 centimeter in diameter. Although there may be no symptoms associated with complicated silicosis or PMF, the symptoms, if present, are shortness of breath, wheezing, cough, and sputum production. Complicated silicosis or PMF may lead to death. Advanced complicated silicosis or PMF can result in heart disease secondary to the lung disease (cor pulmonale). Accelerated Silicosis can occur with exposure to high concentrations of respirable crystalline silica over a relatively short period; the lung lesions can appear within five (5) years of the initial exposure. The progression can be rapid. Accelerated Silicosis is similar to chronic or ordinary silicosis, except that the lung lesions appear earlier and the progression is more rapid. Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough, and weight loss. Acute silicosis is fatal.

SCLERODERMA- There is evidence that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of scleroderma, an immune system disorder manifested by a fibrosis (scarring) of the lungs, skin, and other internal organs. Recently, the American Thoracic Society noted that "there is persuasive evidence relating scleroderma to occupational silica exposures in settings where there is appreciable silicosis risk". The following may be consulted for additional information on silica, silicosis, and scleroderma (also known as progressive systemic sclerosis): Occupational Lung Disorders, Third Edition, Chapter 12, entitled "Silicosis and Related Diseases", Parkes, W. Raymond (1994). "Adverse Effects of Crystalline Silica Exposure", American Journal of Respiratory and Critical Care Medicine, Volume 155, pp. 761-765 (1997).

TUBERCULOSIS- Individuals with silicosis are at increased risk to develop tuberculosis, if exposed to persons with tuberculosis. The following may be consulted for further information: Occupational Lung Disorders, Third Edition, Chapter 12, entitled "Silicosis and Related Diseases", Parkes, W. Raymond (1994). "Adverse Effects of Crystalline Silica Exposure", American Journal of Respiratory and Critical Care Medicine, Volume 155, pp. 761-765 (1997).

NEPHROTOXICITY- There are several recent studies suggesting that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of kidney disorders. The following may be consulted for additional information on silica, silicosis, and nephrotoxicity: Occupational Lung Disorders, Third Edition, Chapter 12, entitled "Silicosis and Related Diseases", Parkes, W. Ramond (1994). "Further evidence of human silica nephrotoxicity in occupationally exposed workers", British Journal of Industrial Medicine, Vol 50, No. 10, pp. 907-912 (1993). "Adverse Effects of Crystalline Silica Exposure", American Journal of Respiratory and Critical Care Medicine, Volume 155, pp. 761-765 (1997).

ARTHRITIS- There are recent studies suggesting that exposure to respirable crystalline silica or that the disease silicosis is associated with the increased incidence of arthritis. The following may be consulted for additional information on silica exposure and arthritis: American Journal of Industrial Medicine, Volume 35, pp. 375-381 "Connective Tissue Disease and Silicosis", Rosenman KD; Moore-Fuller M.; Reilly MJ. (1999). Environmental Health Perspective, Volume 107, pp. 793802

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"Occupational Exposure to Crystalline Silica and Autoimmune Disease", Parks CG, Conrad K, Cooper GS. (1999).

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Classification has been based on toxicological information of the components in Section 3.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Routes of entry:

Inhalation, skin contact.

Symptoms related to the physical, chemical and toxicological characteristics:

Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

SECTION 12: Ecological information

12.1 Toxicity:

Dusts of as-manufactured refractory product have a low order of aquatic toxicity, are insoluble, and are not very mobile. Based upon this information, it is not believed to be a significant threat to the environment if accidentally released on land or into water. However, dust and material generated during maintenance and tear-out operations may be contaminated with other hazardous substances (e.g., metals, respirable crystalline silica, alkaline materials). Evaluation of dust and material from specific processes should be performed to determine if an environmental threat exists in the case of release.

Ecological Toxicity Data:

Chemical Name	CAS #	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
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No data available				
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12.2 Persistence and degradability: Not applicable

12.3 Bioaccumulative potential: Not applicable

12.4 Mobility in soil: Not applicable

12.5 Results of PBT and vPvB assessment: Not applicable

12.6 Other adverse effects: None Known

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Disposal methods:

The as-manufactured refractory product or refractory dust is not considered a hazardous waste. Dust and material generated during use, maintenance and tear-out operations may be contaminated with other hazardous substances (e.g., metals, alkaline materials) from a particular application. Additionally, the spent refractory could contain reaction products not originally present in the supplied refractory material. Contaminants or reaction products have the potential to cause the refractory waste to exhibit hazardous waste characteristics. It is the responsibility of the user to consult applicable regulations prior to disposal of any industrial product to ensure waste disposal compliance. Waste analysis and characterization may be necessary to determine proper waste disposal. Waste Management: Dusts could contain respiratory hazards. To prevent waste materials becoming airborne during waste generation, storage, transportation, and disposal, proper dust control measures are recommended.

SECTION 14: Transport information

International carriage of dangerous goods by road (ADR), rail or inland waterways:

14.1. UN number: Not Regulated for Transport

14.2. UN proper shipping name: Not applicable

14.3. Transport hazard class(es): Not applicable

14.4. Packing group: Not applicable

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International carriage of dangerous goods by sea (IMDG/IMO):

- 14.1. UN number: Not Regulated for Transport
14.2. UN proper shipping name: Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group: Not applicable

International carriage of dangerous goods by air (IATA):

- 14.1. UN number: Not Regulated for Transport
14.2. UN proper shipping name: Not applicable
14.3. Transport hazard class(es): Not applicable
14.4. Packing group: Not applicable

- 14.5. Environmental hazards: No
14.6. Special precautions for user: No data available
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Chemical Name	EINECS	SVHC
Silica, Crystalline quartz (respirable)	Yes	No

- 15.2 Chemical Safety Assessment: No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

- SDS Prepared by: Environmental, Health & Safety Compliance
Revision Date: 21 April 2020
Revision Number: 3

- Abbreviations and acronyms: CAS = Chemical Abstract Service
DNEL= Derivative No Effect Level
EC= European Community
EINECS = European Inventory of Existing Chemical Substances
MSHA = Mine Safety Health Administration

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NIOSH = National Institute of Occupational Safety & Health

OEL = Occupational Exposure Limit

PBT= Persistent, Bioaccumulative, Toxic

PNEC= Predicted No Effect Concentration

SCOEL= Scientific Committee on Occupational Exposure Limits

TLV = Threshold Limit Value

TWA= Time Weighted Average

vPvB= Very Persistent, Very Bioaccumulative

Wt.% = Weight Percent

Hazard phrase(s) referenced in section 3

H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements:

Prevention:

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

Response:

P314 - Get medical advice/attention if you feel unwell.

Disposal:

P501 - Dispose of contents/container to a suitable disposal site in accordance with local/national/international regulations.

Disclaimer of Liability:

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