

Safety Data Sheet

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



Item Code: SILICA REFRACTORIES

Revision Date: 06-12-2018

Revision Number: 1

This document replaces SDS dated: None

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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, Inc.

2700 Scioto Parkway

Columbus, OH 43221

Telephone: (614)-876-0244

E-Mail of person responsible for SDS:

sdsinfo@alliedmin.com:

Allied Mineral Products (Tianjin) Co., Ltd.

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Telephone: +31-166 601200

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Allied Mineral Products South Africa (Pty) Ltd.

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Telephone: +27-11-902-6930:

Allied Refractory Products India Pvt. Ltd.

SM-5 Bol, G.I.D.C.

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Dist.: Ahmedabad, Gujarat 382170, India

Telephone: +91-2717-616800:

Fabricados no Brasil para Allied Mineral Products, Inc.

De Togni S/A Materiais Refratarios

Telephone: +55-35-2101-2222:

Allied Mineral Products Rus LLC

423601, Russia, Republic of Tatarstan,

Yelabuga Region, City of Yelabuga,

Territory of SEZ "Alabuga",

Street Sh-2, Structure 5/12, Building 2, Facility 8

Phone: +7(85557)5-26-07;

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Fabricado en Chile para Allied Mineral Products, Inc.

Por Refrataros lunge Ltda.

Telephone: (56-2) 2745-3613:

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1.4 Emergency telephone number: CHEMTREC: (800) 424-9300
Poison Centre contact information: Nationaal Vergiftigen 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) - Single Exposure Category 1
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:

H370 - Causes damage to organs
H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary Statements:

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P308+P311 - IF exposed or concerned: Call a POISON CENTER/doctor.
P314 - Get medical advice/attention if you feel unwell.
P270 - Do not eat, drink or smoke when using this product.

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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.

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 (non-respirable)	90 - 99	14808-60-7	None Known	STOT RE 1; H372 STOT SE 1; H370	No data available	No data available
Silica, Crystalline quartz (respirable)	5 - 10	14808-60-7	None Known	STOT RE 1; H372 STOT SE 1; H370	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 classified but below the GHS threshold limits.
For full text of H-statements see Section 16.

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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.

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. 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. IF exposed or concerned: Call a POISON CENTER/doctor.

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:

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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 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:

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Exposure Limits

Follow workplace regulatory exposure limits for all types of airborne dust (eg. total dust, respirable dust). For the equivalent limits in other countries, consult a competent occupational hygienist or the local regulatory authority.

Occupational Exposure Limits in mg/m³ 8 hours TWA – Respirable dust – EU 27 + Norway & Switzerland

Country/Authority	Inert dust	Quartz (q)	Cristobalite (c)	Tridymite (t)
Austria / I	5	0,15	0,15	0,15
Belgium / II	3	0,1	0,05	0,05
Bulgaria / III	4	0,07	0,07	0,07
Cyprus/ IV	/	10k/Q ²	/	/
Czech Republic/ V		0,1	0,1	0,1
Denmark / VI	5	0,1	0,05	0,05
Estonia		0,1	0,05	0,05
Finland / VII		0,05	0,05	0,05
France / VIII	5	0,1	0,05	0,05
Germany/IX	0,5	/ ^β	/	/
Greece/X	5	0,1	0,05	0,05
Hungary		0,15	0,1	0,15
Ireland/ XI	4	0,1	0,1	0,1
Italy/ XII	3	0,05	0,05	0,05
Lithuania/ XIII	10	0,1	0,05	0,05
Luxembourg/ XIV	6	0,15	0,15	0,15
Malta / XV ⁴	/	/	/	/
Netherlands/ XVI	5	0,075	0,075	0,075
Norway/XVII	5	0,1	0,05	0,05
Poland	0,3	0,3	0,3	0,3
Portugal/XVIII	5	0,025	0,025	0,025
Romania/XIX	10	0,1	0,05	0,05
Slovakia		0,1	0,1	0,1
Slovenia		0,15	0,15	0,15
Spain/ XX	3	0,05	0,05	0,05
Sweden/XXI	5	0,1	0,05	0,05
Switzerland/XXII	6	0,15	0,15	0,15
United Kingdom/XXIII	4	0,1	0,1	0,1

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DNEL: None Known

PNEC: None Known

8.2 Exposure controls:

Appropriate Engineering Controls

Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries.

Skin Protection

No specific requirement. For hands, see below. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.

Hand Protection

Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.

Respiratory Protection

In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation. The use of half or full face masks with filters against particles of category 2 or 3 (FP2 - FP3) is recommended. See EN 143: 2000 - Respiratory protective devices. Particle filters.

Environmental exposure controls:

Avoid wind dispersal. 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

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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
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
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

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.

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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.

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):

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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 "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:

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

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.

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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
No data available				

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

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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 |

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 |

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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 (non- respirable)	Yes	No
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: 06 December 2018
Revision Number: 1

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
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

H370 - Causes damage to organs
H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary Statements:

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

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Response:

P264 - Wash thoroughly after handling.

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

P308+P311 - IF exposed or concerned: Call a POISON CENTER/doctor.

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

P321 - Specific treatment (see Sections 4 to 8 on this SDS and any additional information on this label).

Disposal:

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

Disclaimer of Liability:

All information provided here is based on data believed to be reliable. However, THE INFORMATION AND THE PRODUCT ARE PROVIDED WITHOUT ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO REPRESENTATIONS AND WARRANTIES REGARDING ACCURACY OR CORRECTNESS, THE EFFECTS OF USING THE PRODUCT, THE RESULTS TO BE OBTAINED, FITNESS FOR A PARTICULAR PURPOSE, OR THE SAFETY OR TOXICITY OF THE PRODUCT. It is the users' responsibility to determine the safety, toxicity, and suitability for their use of the product and to comply with all applicable statutes and regulations. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control. For this and other reasons, Allied Mineral Products, Inc. does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of, relating to, or in any way connected with the handling, storage, use, or disposal of this product. This SDS is not intended as a license to operate under, or a recommendation to infringe on, any patents. Appropriate warnings and safe handling instructions should be provided to handlers and users.