

SAFETY DATA SHEET

Ceramic fiber

2.3 Other hazards

Additional advice

May cause temporary mechanical irritation to exposed eyes, skin or respiratory tract.

Minimize exposure to airborne dust..

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

Chemical Name	CAS-No. EC-No.	Concentration (%)
Refractory Ceramic Fibres,	142844-00-6 604-314-4	>= 90 - <= 100

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Move out of dangerous area. Call a POISON CENTRE or doctor/physician if exposed or you feel unwell. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: Move to fresh air. Call a physician or poison control centre immediately. If unconscious place in recovery position and seek medical advice.
In case of skin contact	: First aid is not normally required. However, handling of this material may generate mild mechanical temporary skin irritation, it is recommended that exposed areas be cleaned by washing with soap and water, do not rub or scratch exposed skin.
In case of eye contact	: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	: Obtain medical attention. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
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SAFETY DATA SHEET

Ceramic fiber

stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
Mild mechanical irritation to skin, eyes and upper respiratory system may result from exposure. These effects are usually temporary.

Risks : May cause cancer by inhalation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Skin and respiratory effects are the result of temporary, mild mechanical irritation.
fiber exposure does not result in allergic manifestations.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Dry chemicals

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Packaging and surrounding materials may be combustible.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.

SAFETY DATA SHEET

Ceramic fiber

Avoid dust formation.
Avoid breathing dust.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Frequently clean the work area with vacuum or wet sweeping to minimize the accumulation of debris.
Use a vacuum cleaner fitted with a high efficiency filter (HEPA)
Do not use compressed air for clean-up.
Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid dust formation.
Provide sufficient air exchange and/or exhaust in work rooms.
Where abnormally high dust concentrations occur, provide workers with appropriate protective equipment.
Handling can be a source of dust emission and therefore the processes should be designed to limit the amount of handling.
Whenever possible, handling should be carried out under controlled conditions (i.e. using dust exhaust system).
Do not breathe dust.
Do not smoke.
Container hazardous when empty.
Avoid exposure - obtain special instructions before use.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : Avoid breathing dust. Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Reduce dust emission during unpacking. Avoid damaging containers. Electrical

SAFETY DATA SHEET

Ceramic fiber

installations / working materials must comply with the technological safety standards.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : The main application of these products is as thermal insulation. Use of the products is restricted to professional users

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Refractory Ceramic Fibres,	142844-00-6	TWA	5 mg/m ³ 2 fibre/ml	EH40 WEL
		TWA (Fiber.)	5 mg/m ³ 1 fibre/ml Fiber.	EH40 WEL

8.2 Exposure controls

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Eye protection : As necessary, wear goggles or safety glasses with side shields.

Hand protection

Remarks : Wear personal protective equipment (e.g gloves), as necessary to prevent skin irritation.

Skin and body protection : Wear as appropriate:
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

When engineering and/or administrative controls are insufficient to maintain workplace concentrations below the regulatory OEL the use of appropriate respiratory protection, a certified respirator with a filter efficiency of at least 95% should be used. Dust safety masks are recommended when the dust concentration is more than 10 mg/m³.

SAFETY DATA SHEET

Ceramic fiber

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Solid, fiber
Color	: White
Odour Threshold	: Odourless
pH	: No data available
Melting point/freezing point	: 1840 °C
Boiling point/boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: Insoluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Oxidizing properties	: No data available

9.2 Other information

No data available

SAFETY DATA SHEET

Ceramic fiber

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : Please refer to handling and storage advice in Section 7
Keep away from heat, flame, sparks and other ignition sources.

10.5 Incompatible materials

Materials to avoid : hydrofluoric acid
phosphoric acid
strong alkalis

10.6 Hazardous decomposition products

Hazardous decomposition products : Upon heating above 900°C for sustained periods, this amorphous material begins to transform to mixtures of crystalline phases.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Components:

ALUMINOSILICATE FIBER (VITREOUS):

Result: Mild skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury., Product dust may be irritating to eyes, skin

SAFETY DATA SHEET

Ceramic fiber

and respiratory system.

Components:

ALUMINOSILICATE FIBER (VITREOUS):

Result: Mild eye irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer by inhalation.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Bioaccumulation : Remarks: The substance has low potential for bioaccumulation.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

Product:

Additional ecological information : No data available

SAFETY DATA SHEET

Ceramic fiber

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	: To prevent waste materials from becoming airborne during waste storage, transportation and disposal, a covered container or plastic bagging is recommended. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Such a waste is normally dusty (unless wetted) and so should be properly bagged and clearly labeled for disposal. Check for national and /or regional regulations to identify all applicable disposal requirements.

SECTION 14: Transport information

International transport regulations

14.1 UN number

ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

14.2 Proper shipping name

ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

14.3 Transport hazard class

ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

14.4 Packing group

ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
IATA	: Not regulated as a dangerous good

14.5 Environmental hazards

ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good

SAFETY DATA SHEET

Ceramic fiber

14.6 Special precautions for user

Remarks : Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category : Not applicable
Ship type : Not applicable
Product name : Not applicable
Special precautions : Not applicable

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 57) : Refractory Ceramic Fibres

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Refractory Ceramic Fibres

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

The components of this product are reported in the following inventories:

TSCA : Not On TSCA Inventory

DSL On the inventory, or in compliance with the inventory

AUSTR Not in compliance with the inventory

ENCS Not in compliance with the inventory

KECL On the inventory, or in compliance with the inventory

PHIL Not in compliance with the inventory

IECSC On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

15.2 Chemical Safety Assessment

No data available

SAFETY DATA SHEET

Ceramic fiber

SECTION 16: Other information

Further information

Revision Date: 2020-02-27

Full text of H-Statements referred to under sections 2 and 3.

H350i May cause cancer by inhalation.

Disclaimer:

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by us to be dependable and is accurate to the best of our knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. We assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

End of Material Safety Data Sheet
