

Safety Data Sheet

1. Identification of the product and of the company

[Product information]

Product name : TAIKALITE SLURRY
General name : Inorganic Joint Sealing Material
Recommended application : Joint Sealing Material For Calcium Silicate Fireproof Covering Material
And restrictions of use: Avoid use other than that recommended

[Corporate information]

Company name : Japan Insulation Co., Ltd
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2. Hazards identification

GHS classification: Classification as mixture

Physical Hazards	Explosives	No classification
	Flammable gases	No classification
	Aerosols	No classification
	Chemicals under pressure	No classification
	Oxidizing gases	No classification
	Gas under pressure	No classification
	Flammable liquids	No classification
	Flammable solids	No classification
	Self-reactive substance and mixtures	No classification
	Pyrophoric liquids	No classification
	Pyrophoric solids	No classification
	Self-heating substances and mixtures	No classification
	Substances and mixtures which, in contact with water, emit flammable gases	No classification
	Oxidizing liquids	No classification
	Oxidizing solids	No classification
	Organic peroxides	No classification
	Corrosive to metals	No classification
	Desensitize explosives	No classification
Health Hazards	Acute toxicity (oral)	Classification not possible
	Acute toxicity (dermal)	Classification not possible
	Acute toxicity (Inhalation: Gases)	No classification
	Acute toxicity (Inhalation: Vapors)	No classification
	Acute toxicity (Inhalation: Dusts)	Classification not possible
	Acute toxicity (Inhalation: mists)	No classification
	Skin corrosion/irritation	Classification not possible
	Serious eye damage/eye irritation	Classification not possible
	Respiratory sensitization	Classification not possible
	Skin sensitization	Classification not possible
	Germ cell mutagenicity	Classification not possible
	Carcinogenicity	Category 1A
	Reproductive toxicity	Classification not possible
	Specific target organ toxicity (single exposure)	Classification not possible
	Specific target organ toxicity (repeated exposure)	Classification not possible

	Aspiration hazard	Classification not possible
Environmental Hazards	Hazardous to the aquatic environment Short-term(acute)	Classification not possible
	Hazardous to the aquatic environment Long-term(chronic)	Classification not possible
	Hazardous to the ozone layer	Classification not possible
(Note) The component, which information or knowledge for GHS classification is unavailable, is not included into evaluation or is classified into "Classification not possible".		

GHS label elements:

< Pictograms >



< Signal words >

Danger

< Hazardous information >

'May cause cancer' if dust generated after drying is inhaled.

< Safety measures >

Do not handle this product until you have obtained the Safety Data Sheet and read and understood all safety precautions.

When performing grinding or similar operations on the product after drying, dust may be generated. In such cases, observe the following precautions:

Please wear the appropriate protective gear as indicated in section 8.

Avoid exposure by wear a protective mask and use ventilating device as needed.

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

Wash your hands thoroughly after handling.

< Emergency measures >

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

< Storage >

Store in a cool, dark place out of direct sunlight.

After opening, keep it tightly closed to prevent it from drying.

It may solidify below 0°C. In this case, it will return to normal when heated, but the concentration may be uneven, so please stir well.

< Disposal >

Please dispose the product in accordance with local/regional/national/international regulation.

3. Composition/Information of ingredients

Substance/Mixture: Mixture

This product is a paste-like joint sealing material mainly composed of calcium silicate.

This product contains continuous glass fiber as inorganic reinforced fiber.

Chemical name or General name	CAS No.	Official Gazette published docket number	Content (%)
Calcium silicate	1344-95-2	1-194	10~20
Crystalline silica	14808-60-7	1-548	< 1

(Note) Information of the raw materials, which are main components, or considered to have risk hazard, are listed in above table.

The fiber used in this product is mainly continuous glass fiber, and does not include asbestos fiber.

This product does not fall under formaldehyde releasing building material, so it is out of notified material. Hence,

this product does not contain substances regulated by the Building Code such as chlorpyrifos and formaldehyde because these substances are not used as raw materials or in the process.

Furthermore, the chemical substances which are mentioned below are not used similarly to the product.

Toluene, Xylene, Paradichlorobenzene, Ethylbenzene, Styrene, Di-n-butyl phthalate, Tetradecane, Di-2-ethylhexyl phthalate, Diazinon, Acetic aldehyde, Fenobucarb, Other volatile organic compounds.

4. First-aid measures

If swallowed:	Rinse mouth. Do not induce vomiting. If you feel unwell, get medical advice/attention.
Skin contact:	Remove immediately all contaminated clothing. Wash skin with plenty of water/shower.
Inhalation:	Remove person to fresh air and keep comfortable for breathing.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned:	Get medical advice/attention. Wash contaminated clothing before reuse. Rinse mouth. If you feel unwell, get medical advice/attention.

5. Fire-fighting measures

Because this product is noncombustible, it is unnecessary to take fire-fighting measure.

Suitable Extinguishing Media: Not present due to noncombustible.

Inappropriate Media: Not present due to noncombustible.

6. Accidental Release Measures

<Precautions for the human body >

If this product is broken and the dust fall down on the floor, use the appropriate protective equipment indicated in section 8 and clean it promptly and calmly so that it is not scattered.

<Precautions for the environment >

Be careful not to be discharged into rivers, etc. and cause an impact on the environment.

<Containment and purification methods and equipment >

Wipe up small amounts with a cloth or other absorbent material, and recover large amounts into a tank or suitable container as much as possible.

7. Handling and Storage

[Precautions on handling]

Obtain this data sheet before use, and do not handle until all safety precautions have been read and understood.

When grinding or performing similar operations on the product after drying, dust may be generated. In such cases, observe the following precautions.

- Please wear the appropriate protective gear as indicated in section 8.
- Because the product is mildly alkaline, wear protective equipment to avoid contact with skin, mucous membranes, or clothing, and to prevent it from getting into the eyes.
- If the product has contacted with working cloth, remove it with taking care not to scatter the dust.
- After handling, gargle and wash hands.

[Precautions on storage]

Store in a cool, dark place out of direct sunlight.

After opening, keep the container tightly closed to prevent drying.

The product may solidify below 0°C. If this occurs, it will return to its original state when warmed, but the concentration may become uneven, so stir well before use.

8. Exposure Controls/Personal Protection

[Engineering measures]

Install a hand-washing station or wash basin near the work area as necessary.

[Personal protection equipment]

Eye and face protection

Wear safety spectacles or goggles compliant with JIS T 8147.

Skin and body protection

Wear impermeable protective clothing suitable for the work to prevent skin exposure.

Hand protection

Wear impermeable chemical-resistant gloves compliant with JIS T 8166.

Recommended materials: nitrile rubber gloves, butyl rubber gloves.

Do not use non-impermeable work gloves (for example: cotton gloves).

Respiratory protection

When grinding, cutting, or performing similar operations on the dried product, wear a dust mask approved by the national certification system.

Ensure proper fit by performing fit tests and paying close attention to the seal against the face.

For replaceable-filter dust masks, properly maintain them by inspecting and replacing filters and checking for deterioration of inhalation/exhalation valves.

9. Physical/Chemical Properties

Physical state:	pasty
Color:	White to Gray
Odor:	None.
Boiling Point or Initial Boiling Point and Boiling Range:	Lack of data.
Flammability:	Nonflammable
Lower and Upper Explosion Limit /Flammable Limits	
(Approximate volume % in air):	Not applicable.
Flash point:	Not flammable.
Auto-ignition Temperature:	None.
Decomposition Temperature:	Lack of data.
pH:	About 8.0~11.0
Kinematic Viscosity:	Lack of data.
Vapor Pressure:	Not applicable.
Bulk density:	Lack of data.
Relative Vapour Density (Air = 1):	Not applicable.
Particle Characteristics:	Not applicable.

10. Stability and Reactivity

Reactivity:	Solidifies when left exposed to air.
Chemical stability:	Partially dissolves in acid, but detailed data are not available.
Possibility of hazardous reactions:	lack of data.
Conditions to avoid:	lack of data.
Incompatible materials:	lack of data.
Hazardous decomposition products:	lack of data.

11. Toxicological Information

Acute toxicity (oral):	Classification not possible due to lack of data.
Acute toxicity (dermal):	Classification not possible due to lack of data.
Acute toxicity (inhalation: gas):	Not applicable.
Acute toxicity (inhalation: vapour):	Not applicable.
Acute toxicity (inhalation: dust):	Classification not possible due to lack of data.
Acute toxicity (inhalation: mist):	Not applicable.
Skin corrosion/irritation:	If the product remains in contact with the skin for a long time, it may cause roughness, but data are insufficient.

	Classification not possible.
Serious eye damage/eye irritation:	Physical irritation occurs but cannot be classified due to lack of data.
Respiratory sensitization or Skin sensitization:	Classification not possible due to lack of data.
Germ cell mutagenicity:	Classification not possible due to lack of data.
Carcinogenicity:	The product contains 0.1% or more of “Crystalline silica , GHS Category 1A”, and workers may be exposed to dust during grinding or similar operations on the dried product. Therefore, it is classified as Category 1A.
Reproductive toxicity:	Classification not possible due to lack of data.
Specific target organ toxicity (single exposure):	Classification not possible due to lack of data.
Specific target organ toxicity (repeated exposure):	Classification not possible due to lack of data.
Aspiration hazard:	Classification not possible due to lack of data.

[Information of component]

Information of crystalline silica

Acute toxicity:	None.
Germ cell mutagenicity	From in vivo, in vitro hpert genetic mutation test, it is suspected of causing genetic defects.
Carcinogenicity:	IARC Carcinogenicity Group 1 (carcinogenic to human)
Specific target organ toxicity (repeated exposure):	May cause pneumoconiosis and etc. through prolonged and considerable inhalation.
Others:	If exposed period is short, in the case of high inhalation concentration, it may cause influence to respiratory system.

12. Ecological information

Hazardous to the aquatic environment (acute):	Classification not possible due to lack of data.
Hazardous to the aquatic environment(long-term):	Classification not possible due to lack of data.
Persistence and degradability:	lack of data.
Bioaccumulative potential:	lack of data.
Mobility in soil:	lack of data.
Hazardous to ozone layer:	Classification not possible due to lack of data.

13. Disposal Consideration

In the case of dispose the product, be careful the dust is not scattered in neighboring environment.

When this product is disposed of as waste from business activity, it is regarded as industrial waste. Dispose of this product as glass waste and pottery waste by landfill in the least controlled landfill site according to the Waste Management and Public Cleaning Law.

14. Transport Information

[International Regulations]

Maritime Regulatory Information (IMDG Code)

UN No.:	Not applicable.
Proper shipping name:	Not applicable.
Class or division:	Not applicable.
Packing group:	Not applicable.
Marine pollutants:	No.

Aviation Regulatory Information (ICAO TI / IATA DGR)

UN No.:	Not applicable.
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Proper shipping name: Not applicable.
 Class or division: Not applicable.
 Packing group: Not applicable.

[Japanese Regulations]

Sea Freight Regulations: Not applicable.
 Air Transport Regulations: Not applicable.
 Land Transport Regulations: Not applicable.

15. Japanese Regulatory Information

Check local laws and ordinances in each region.

Industrial Safety and Health Law:	Notifiable Substance: Crystalline silica (Quartz) Carcinogenic Substance: Crystalline silica (Quartz)
Law Concerning the Reporting of the Release into the Environment of Specific Chemical Substances and Promoting Improvements in Their Management. (PRTR Law):	No application.
Poisonous and Deleterious Substances Control Law:	No application.
Japanese Ship Safety Law:	corrosive substance
Japanese Aviation law:	corrosive substance
Japanese Marine Pollution Control Law:	Hazardous Liquid Substances (Category Y Substances) (limited to those transported as bulk liquid cargo by ships)
Japanese Water Pollution Control Law:	Living Environment Items (Article 3, Paragraph 1 of the Enforcement Order) (Emission standards for hydrogen ion concentration) When discharged into public waters other than sea areas: pH 5.8 to 9.0 When discharged into sea areas: pH 5.0 to 9.0
Ordinance on Prevention of Dangers Due to Dust:	No application.
Pneumoconiosis Act:	No application.

16. Other information

[Reference]

- 1) Ministry of Labor, Notification No.79.: Working environment standards (Mar.22, 2020 rev.)
- 2) "Recommendation of Occupational Exposure Limits": Japan Society for Occupational Health (2025).
- 3) Chemical substances total information supplement system: National Institute of Technology and Evaluation (NITE).
- 4) JIS Z 7253: 2025 (Hazard communication of chemicals based on GHS – Labelling and Safety Data Sheet (SDS).
- 5) ACGIH (American Conference of Governmental Industrial Hygienists) Table of exposure limits for chemical and biological substances (2023).

The information contained herein may be revised based on new knowledge.

Among the descriptions of this MSDS, the information such as the content and the physical/chemical properties does not represent a guarantee. Evaluation of hazards is prepared based on our material and data of the product available at the date of publishing, but it is not considered to be exhaustive.