

Material Safety Data Sheet (MSDS)

Sample Name: Aerogel thermal insulation coating

Sample ingredients/raw materials (provided by the customer): see Part III "Ingredient/Composition Information" in the body of the report

Editing Period: April 24, 2025 to April 25, 2025

Project: Prepare MSDS based on sample information provided by the customer.

Abstracts: According to the customer's request, the content and format of this Safety Technical Sheet are compiled in accordance with the European Commission Regulation "Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 10th Edition (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 878/2020, and (EU) No 2015/830, as detailed in the body of the attached report.

Client Name: Hebei Woqin Trading Co., Ltd

Client Address: 1017, Tower C, Rongsheng Center, Chang'an District, Shijiazhuang City, Hebei Province

Signed for and on Behalf of **SNTEK**

Main inspection:



sign and issue:



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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product Labeling**

Product Name: Aerogel thermal insulation coating

Model: general type

1.2 Recommended and Restricted Uses

Recommended use: Building materials, mainly used for wall insulation and roof insulation

Restricted use: No data available

1.3 Product Manufacturer or Supplier Information

Manufacturer: Hebei Woqin Trading Co., Ltd

Address: 1017, Tower C, Rongsheng Center, Chang'an District, Shijiazhuang City, Hebei Province

Telephone: -86-13933929092

E-mail: ruibinan395@gmail.com

1.4 Enterprise emergency telephone

Enterprise emergency telephone: -86-13933929092

SECTION 2: Hazards identification**Summary of emergency**

This product is a water-based coating, a viscous liquid,, which is harmless under normal circumstances. If there is skin contact after damage, immediately remove all contaminated clothing. Rinse the skin with water/shower. After eye contact: Rinse off with plenty of water., contact lenses. After swallowing: Let the victim drink water (up to two cups). If you feel uncomfortable, please consult a doctor. Flammable. Dangerous combustion gases or vapors may be generated during a fire.

2.1 GHS Classification

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Physical and chemical hazards

Referring to current information, no physical or chemical hazard.

2.4 Health hazards

Referring to current information, no health hazard.

2.5 Environmental hazards

Referring to current information, no environmental hazard.

2.6 Other hazards

None

SECTION 3: Composition/information on ingredients

3.1 Chemical characteristics

Substance / mixture: mixture

3.2 Composition / component

Description: A mixture composed of the following components

Component	Appr. %	CAS
pure water	46%	7732-18-5
silicon dioxide	18%	60676-86-0
Acrylic lotion	13%	9007-20-9
Calcined kaolin	10%	52624-41-6
Water soluble potassium silicate	8%	1312-76-1
Melamine polyphosphate (MCA)	5%	15541-60-3

Note: The above harmful substances have not reached the minimum regulatory value.

SECTION 4: First aid measures

4.1 Description of first-aid measures

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂) Foam Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nature of decomposition products not known.

Non-flammable liquids.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure

adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry.

Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 13: Non-flammable liquid

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please

contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested:KCL 741 Dermatril® L

Respiratory protection

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- | | |
|--|--|
| a) Appearance | viscous liquid |
| b) Color | white |
| c) Odor | odorless |
| d) pH | No data available |
| e) Melting point/
freezing point | No data available |
| f) Initial boiling point
and boiling range | No data available |
| g) Flash point (open flash point) | Non-flammable |
| h) Evaporation rate | No data available |
| i) Flammability
(solid, gas) | No data available |
| j) Upper/lower Flamm-
ability or explosive limits | No data available |
| k) Vapor pressure | No data available |
| l) Vapor density | No data available |
| m) Relative density | 1.56g/m ³ |
| n) Water solubility | soluble |
| o) Partition coefficient:
n-octanol/ water | No data available |
| p) Autoignition
temperature | No data available |
| q) Decomposition
temperature | No data available |
| r) Viscosity | Viscosity, kinematic: No data available
Viscosity, dynamic: No data available |
| s) No data available | No data available |
| t) Oxidizing properties | No data available |

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity

10.1 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.2 Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents

10.3 Conditions to avoid

No data available

10.4 Incompatible materials

Strong oxidizing agents

10.5 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral : No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/ irritation

No data available

Serious eye damage/ eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

However, when the product is handled appropriately, hazardous effects are unlikely to occur.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14: Transport information**14.1 UN number**

ADR/RID: -

IMDG: -

IATA-DGR: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA-DGR: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA-DGR: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA-DGR: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA-DGR: no

14.6 Special precautions for user

Avoid generating dust.

14.7 Incompatible materials

Strong oxidizer

Further information

During transportation, it should be protected from sunshine, rain and high temperature, and should be kept away from fire and heat source.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information**16.1 References:**

[1] IPCS: International Chemical Safety Card (ICSC) Website:

<http://www.ilo.org/dyn/icsc/showcard.home>

[2] EU REACH Registered Substances Database

Website: <http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

[3] OECD Global Chemical Information Platform (GCIP)

Website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

[4] US CAMEO Chemical Substance Database Website:

<http://cameochemicals.noaa.gov/search/simple>

[5] U.S. Library of Medicine: Chemical Labeling Database

URL: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

16.2 Shrinking:

PC-STEL Short Time Exposure Tolerance Concentration

PC-TWA Time-weighted average

IARC International Agency for Research on Cancer

IATA International Air Transport Association

ICAO International Civil Aviation Organization

UN United Nations

16.3 Disclaimer:

The format of this MSDS complies with the requirements of the 10th edition of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 878/2020, and (EU) No 2015/830, and the data are obtained from international authoritative databases and data submitted by the enterprises, and the other information is based on the current knowledge of the company. Other information is based on the company's current knowledge. We try our best to ensure the correctness of all the information in this document, but due to the diversity of information sources and the limitations of our knowledge, this document is only for users' reference. The user of the safety instructions should make a judgment on the reasonableness of the information according to the purpose of use. We shall not be liable for any damages arising from the operation, storage, use or disposal of this product.

16.4 Revision Information

Date of MSDS preparation: Friday, April 25, 2025

MSDS Version: 1.0