

Safety Data Sheet
According to Regulation COMMISSION REGULATION

(EU) 2020/878

Version 2.0

Issue date: 02-26-2023

Revision date: 02-25-2023

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

SILTHERM BOARD
SILTHERM QUILT
SILTHERM ALUFLEX
SILTHERM PANEL

Identification on the label/Trade name:

SILTHERM PANEL FP
SILTHERM PANEL CS
SILTHERM SLATFLEX
SILTHERM PIPESHELL
SILTHERM GRANULATE
SILTHERM VACUPANEL
SILTHERM SILICORE

Additional identification:

Not available

Identification of the product:

See section 3

Index Number:

See section 3

REACH registration No.:

See section 3

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

1.2.1 Identified uses:

Industrial thermal insulation

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative):

-

Supplier(Manufacturer):

SILTHERM INT'L GROUP LIMITED

Address:

NO 189, Chunhua Road, Yichun, Jiangxi, China.

Contact person(E-mail):

-

Telephone:

+86-20 3195 5615

Fax:

+86-20 3888 8247

1.4 Emergency telephone Number:

+86-20 3195 5615 Only available during office hours (9:00a.m.-17:30p.m)

Available outside office hours?

YES

NO

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.1.1 Classification:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement

Product name: SILTHERM

Version #: 2.0

Issue date: 02-26-2023.

Revision date: 02-25-2023.

SDS EU

1 / 8

Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H335

For full text of H- phrases: see section 2.2.

2.2 Label elements:

Hazard Statement:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Precautionary statement:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/fume/ gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of water.

P304 + P340: IF INHALED: remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313: IF exposed or concerned: Get medical advice/attention.

P312: Call a poison center/doctor if you feel unwell.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local regulations.

2.3 Other hazards:

Not applicable.

Section 3 Composition/information on ingredients

Substance/Mixture:

Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification
Amorphous silica	N/A	112945-52-5	N/A	20-80%	H315 H319 H335
Aluminium oxide	N/A	1344-28-1	215-691-6	0-40%	Not Classified
Silicon carbide	N/A	409-21-2	206-991-8	10-35%	Not Classified
Glass filaments	N/A	65997-17-3	266-046-0	0-5%	Not Classified

With filament diameters in the range 6-11 microns, no respirable fibres contained as defined by the WHO (World

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

In extreme exposures some congestion may occur, remove affected to person to fresh air. Seek medical attention if condition persists.

4.1.2 In case of skin contact:

In case of skin irritation rinse affected are with water and wash gently, do not rub or scratch exposed skin.

4.1.3 In case of eyes contact:

In case of eye contact flush abundantly with water, eye bath recommended. Do not rub eyes and seek medical attention if irritation persists.

4.1.4 In case of ingestion:

Call a physician or poison control centre immediately. Take victim immediately to hospital. If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Artificial respiration and/or oxygen may be necessary.

4.2 Most important symptoms and effects, both acute and delayed:

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Use extinguishing media suitable for surrounding combustible materials. Use water, CO₂, foam, or dry extinguishing media.

Unsuitable extinguishing media:

Not available.

5.2 Special hazards arising from the substance or mixture

Non combustible product, however encapsulation may burn if exposed to flames.

5.3 Advice for firefighters:

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear chemical resistant oversuit. Cool containers / tanks with water spray.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Avoid build up of dust. In the event of high dust levels use approved respiratory personal protection equipment.

6.1.2 For emergency responders:

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ventilate the area. Wear suitable protective clothing.

6.2 Environmental Precautions:

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for Containment and Cleaning up:

Pick up mechanically. Avoid raising dust, use a vacuum cleaner fitted with an exhaust air filter fine enough to trap the dust is recommended. Do not use compressed air for dust cleaning.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Avoid build up of dust. Siltherm products, especially in an encapsulated form, is unlikely to generate significant quantities of airborne dust. During working procedures generation of is dust possible, if there is no effective dust removal system present, use approved respiratory personal protection equipment with the appropriate nominal protection and eye protection. Eating, drinking, smoking as well as food storage is prohibited in the workroom. General hygiene measures for handling chemicals are applicable. Wash hands before breaks and at the end of work. Remove contaminated clothing and personal protective equipment before entering areas in which food is present.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store in original packaging in dry conditions. Store in dry and roofed places.

7.3 Specific end use(s):

Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

Country	Substance	EINECS No.	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		
				ppm	mg/ m3	ppm	mg/ m3	Note
Ireland	Silicon carbide total inhalable dust respirable dust	206-991-8	409-21-2	- -	10 3 Fibrous: 0.1 fibre/cc	- -	- -	- -
Ireland	Aluminium oxides; total inhalable dust respirable dust	215-691-6	1344-28-1	- -	10 4	- -	- -	- -

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection:	Goggles or safety glass with side shields.
Hand protection:	Gloves.
Body protection:	Long sleeved overalls that are loose fitting at the neck and waist.
Respiratory protection:	Approved and properly fitting respirator fitted with the appropriate particulate filter.
Thermal hazards:	Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls:	Avoid discharge into the environment. According to local regulations, Federal and official regulations.
---	--

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Solid
Colour:	Gray or white (depending on the opacifier)
Odour:	None
Odour threshold:	Not available
pH:	4,2 - 4,3 at 20 °C (40 g/l H ₂ O)
Melting point/range (°C):	> 1200 °C
Boiling point/range (°C):	Not available
Flash point (°C):	Not available
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower explosive limits:	Not available
Vapour pressure (20°C):	Not available
Vapour density:	Not available
Density:	160 – 550 kg/m ³
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Insoluble
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

9.2. Other information:

Fat solubility(solvent-oil to be specified)	Not available
etc:	
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

Section 10 Stability and reactivity

10.1 Reactivity: The substance is stable under normal storage and handling

Product name: SILTHERM

Version #: 2.0

Issue date: 02-26-2023.

Revision date: 02-25-2023.

SDS EU

5 / 8

10.2 Chemical stability:

conditions.

Stable at room temperature in closed containers under normal storage and handling conditions.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Conditions to avoid:

Incompatible materials.

10.5 Incompatible materials:

Oxidizing agents.

10.6 Hazardous decomposition products:

Not available.

Section 11 Toxicological information**11.1 Information on toxicological effects:****Acute toxicity:****ATE_{mix}(oral):** Not available**ATE_{mix}(inhalation):** Not available**ATE_{mix}(Dermal):** Not available**LD50(Oral, Rat):** Not available**LD50(Dermal, Rabbit):** Not available**LC50(Inhalation, Rat):** Not available**Skin corrosion/Irritation:**

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitization:

Not classified

Germ cell mutagenicity:

Not classified

Reproductive toxicity:

Not classified

STOT- single exposure:

May cause respiratory irritation.

STOT-repeated exposure:

Not classified

Aspiration hazard:

Not classified

Section 12 Ecological information**12.1 Toxicity:****Acute (short-term) toxicity:****LC50(96h, Fish):** Not available**EC50(48h, Crustacea):** Not available**EC50(72h, Algae/aquatic plants):** Not available**Chronic (long-term) toxicity:****NOEC(Fish):** Not available**NOEC(Crustacea):** Not available**EC50(Algae/aquatic plants):** Not available**12.2 Persistence and degradability:**

Not available.

12.3 Bioaccumulative potential:

Not available.

12.4 Mobility in soil:

Not available.

12.5 Results of PBT and vPvB assessment:

Not applicable

12.6 Other adverse effects:

Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods:

Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by

Section 14 Transport information				
	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	Not regulated	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard Class(es)	Not regulated	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated	Not regulated

Section 15 Regulatory information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical safety assessment

YES O

N X

Section 16 Other information

16.1 Indication of changes:

Version 2.0 Amended by (EU) 2020/878

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO-TI: International Civil Aviation Organization The International Civil Aviation Covenant
IATA: International Air Transport Association
LC50: median lethal concentration
EC50: The effective concentration of substance that causes 50% of the maximum response.
NOEC: No Observed Effect Concentration
DNEL: derived no-effect level
PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008		Classification procedure
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
STOT SE 3	H335	Calculation method

16.5 Relevant H-statements (number and full text):

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

16.6 Training instructions:

Not applicable.

16.7 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.8 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.