

SECTION 0: General information

These products are articles in accordance with Article 3.3 of Regulation (EC) No. 1907/2006 (REACH). These articles do not contain substances intended to be released under normal or reasonably foreseeable conditions of use. Therefore, the substances contained in these articles are not subject to registration according to Article 7.1. A Safety Data Sheet does not have to be provided for this product because Article 31 is not applicable to articles but only to hazardous substances and mixtures.

ENERSENS commits itself to communicate to its customers appropriate information to ensure safe handling and use. There is no mandatory format defined in the REACH Regulation.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name : **SKOGAR® ST 0.5 – SKOGAR® ST 1.0 – SKOGAR® ST 2.0 – SKOGAR® ST 3.5**
Other information : ENERSENS SKOGAR® ST 0.5 – SKOGAR® ST 1.0 – SKOGAR® ST 2.0 _ SKOGAR® ST 3.5 products are considered articles

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

Recommended use : Thermal insulation
Uses advised against : None known

1.3. Details of the supplier of the instruction sheet

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1.4. Emergency telephone number

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International CHEMTREC: +1 703-741-5970 or +1-703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

This mixture is classified as non-hazardous according to Regulation (EC) No. 1272/2008 [CLP].

2.2. Label elements

The product is not subject to labelling according to EC directives or relevant national legislation.

Signal word : None
Hazard statements : None
Precautionary Statements - EU (§28, 1272/2008) : None

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : No other effects known.
Other hazards not contributing to the Classification : No other effects known.
May cause mechanical irritation. Dust may be irritating to respiratory tract.

SECTION 3: Composition/information on ingredients**3.1. Substances**

Name	Product identifier	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Textile glass fiber with a nominal diameter equal to or greater than 8 µm consolidated with a maximum of 30% organic binder	Not applicable	35 - 65	-	-	Not classified	-	-	-
Amorphous silica, [(trimethylsilyl)oxy]-modified	(CAS number) 102262-30-6	65 - 35	-	-	Not classified	-	-	-

The hyphen (-) means "Not applicable".

SECTION 4: First aid measures**4.1. Description of first aid measures**

First-aid measures general	: Evacuate the person to an uncontaminated area. Immediately remove any contaminated clothing. Place the victim in the lateral position of safety.
First-aid measures after inhalation	: Move the person to fresh air and hold in a comfortable position for breathing. If breathing symptoms occur: Call a poison control center or doctor.
First-aid measures after skin contact	: After skin contact, remove contaminated clothing immediately and wash immediately with plenty of soap and water. Seek medical attention if symptoms develop.
First-aid measures after eye contact	: In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

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

No additional information available.

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

Seek medical attention if symptoms occur.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO ₂). Foam. Dry chemical agent. Water.
Unsuitable extinguishing media	: None

5.2. Special hazards arising from the product

Fire hazard	: Under fire conditions, hazardous fumes will be present.
Hazardous decomposition products in case of fire	: Carbon oxides, carbon dioxide (CO ₂), organic decomposition products.

5.3. Advice for fire-fighters

Proper firefighting procedures should be followed to prevent inhalation of smoke and gases generated by a fire.

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

General measures	: Prevent or limit the formation and dispersion of dust. Provide adequate ventilation. Use required personal protective equipment. See section 8.
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6.1.1. For non-emergency personnel

Emergency procedures	: If a major spill occurs, all personnel should be immediately evacuated and the area ventilated.
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6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Where excessive dust may result, wear approved mask.

6.2. Environmental precautions

Dispose of at an authorized waste collection center.

Avoid release to the environment. See Section 12 for more information on ecological effects.

6.3. Methods and material for containment and cleaning up

Methods for containment : Contain spilled product on land, if possible. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up : Clean up promptly by vacuum. Use of a vacuum with high efficiency particulate air (HEPA) filtration is recommended. Do not create a dust cloud by using a brush or compressed air. Dry sweeping is not recommended.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Protective measures : Avoid contact with skin and eyes. Avoid generation of dust. Do not breathe dust. Provide appropriate local exhaust ventilation at machinery and at places where dust can be generated. Do not create a dust cloud by using a brush or compressed air. Because aerogel dust is hydrophobic, water is not an effective dust control agent.

Measures to prevent the production of suspended particles and dust : Local extraction is required at the point of dust emission.

General hygiene considerations : Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide adequate ventilation to minimize dust concentrations.

Storage conditions : Keep in closed packaging until use. Store in a dry place.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Exposure Limits : No exposure limit is established for SKOGAR® ST 0.5 – SKOGAR® ST 1.0 – SKOGAR® ST 2.0. Exposure limits for components or similar components are stated below. The table below is a summary. Please see the specific legislation for complete information.

Amorphous silica, [(trimethylsilyl)oxy]-modified (CAS number: 102262-30-6)	
Germany	TRGS 900 Occupational exposure limit value (mg/m ³) 4 mg/m ³ (By analogy with a similar product CAS number: 7631-86-9) (inhalable aerosol)
United Kingdom	WEL TWA (mg/m ³) 6 mg/m ³ (By analogy with a similar product CAS number: 7631-86-9) (inhalable aerosol)
Dust, or particulates not otherwise specified	
France	TWA: 4 mg/m ³ inhalable; 0.9 mg/m ³ alveolar fraction
Belgium	TWA: 10 mg/m ³ inhalable; 3 mg/m ³ alveolar fraction
ACGIH TLV	TWA: 10 mg/m ³ inhalable particles, recommended TWA: 3 mg/m ³ respirable particles, recommended

8.2. Exposure controls

Hand protection : Chemical resistant gloves (according to European standard NF EN 374 or equivalent).

Eye and face protection : Wear tight fitting safety glasses or facial screen. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Skin and body protection : Wear suitable protective clothing. Emergency safety showers should be available in the immediate vicinity of any potential exposure (European standard EN 15154).

Respiratory protection : Ensure good ventilation of the work area to avoid dust formation. Where excessive dust may result, use approved respiratory protection equipment. Dust/aerosol mask with filter type P3.



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

Physical state	: Solid
Appearance	: Panels, Sheets, Rolls, punched parts
Colour	: White - yellow
Thickness	: 0.25 to 4 mm
Odour	: Odourless
Odour threshold	: Not applicable
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: No data available
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 300 °C (TGA)
Flammability (solid, gas)	: No data available
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: No data available
Density	: 100 - 220 kg/m ³
Solubility	: Insoluble in water, insoluble in organic solvents
Log Pow	: No data available
Viscosity	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No additional information available.

10.2. Chemical stability

Stable under normal conditions of use. Stable under recommended storage conditions.

This material will not create nor support conditions that would result in a dust explosion or fire. Take precautionary measures against static discharges. Avoid generation of dust. All metal parts of the processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Keep off any ignition sources (e.g., heat, sparks, flam, impact, friction, electricity...).

If exposed to flame, organic components in the material may burn, releasing toxic fumes and vapors. Vapors resulting from decomposition of the product should be removed by adequate ventilation.

10.5. Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

Carbon oxides, carbon dioxide (CO₂), organic decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity	: Not classified
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Amorphous silica, [(trimethylsilyl)oxy] modified (CAS number: 102262-30-6)

LD50 oral rat	> 2000 mg/kg (OECD 423)
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Skin corrosion/irritation	: Not classified. May cause skin irritation.
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Serious eye damage/irritation	: Not classified. Dust from this product may cause eye irritation.
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Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Other information	: During the cutting, machining or other processing of these products, dust may be generated. According to our present knowledge, these dusts do not present a health risk if their concentration does not exceed the recommended exposure limits for dust in general (inhalable and respirable fraction). The glass fibers present in the material do not have a cleavage plane that would allow a break in the length direction and induce a reduction in the diameter of the fiber.

SECTION 12: Ecological information

12.1. Toxicity

Ecology – general : No data are available on the product itself.

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow) : No data available
 Bioconcentration factor (BCF) : No data available

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

No additional information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of in accordance with local, national and international regulations. Dispose of waste in accordance with environmental regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

14.4. Packing group

Packing group : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

14.6. Special precautions for user

- Overland transport

Transport regulations (ADR) : Not subject

- Transport by sea

Transport regulations (IMDG) : Not subject

- Air transport

Transport regulations (IATA) : Not subject

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

Not applicable

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

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15.1.1. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other informationKey or legend to abbreviations and acronyms used in the instruction sheet

Legend SECTION 8: Exposure controls/personal protection

TWA: TWA (time-weighted average)

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