

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

1.1. Product identifier

Product name : ODE Starflex

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

Use of the substance/mixture : Professional use
Restrictions on use : No data available

1.3. Details of the supplier of the safety data sheet

ODE Yalıtım Sanayi ve Ticaret A.Ş.
Hacı Şeremet Mevkii 3. Sokak Çorlu / Tekirdağ
TURKEY
T +90 282 676 46 64 - F +90 282 676 46 68
info@ode.com.tr - www.ode.com.tr

1.4. Emergency telephone number

National Poison Center (UZEM) : +90 114
Emergency number : +90 282 676 46 64

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified as hazardous

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification (CLP)
Glass wool	-	90-100	Not classified
Binder	-	0-10	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Rinse mouth thoroughly with water. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact : Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Ingestion is not considered a potential route of exposure. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : Fibers may cause mechanical irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.
Unsuitable extinguishing media : Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic fumes may be released. Carbon monoxide, carbon dioxide and trace amount of ammonia, nitrogen oxides and volatile organic compounds (VOC).

5.3. Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Wear recommended personal protective equipment.
Emergency procedures: Ventilate spillage area. Avoid dust formation.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Mechanically recover the product. Sweep up or vacuum up the product. Collect in closed containers for disposal.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed and dry. Keep in a cool, well-ventilated place away from incompatible materials. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from moisture.
Packaging materials: Packed in polyethylene film and/or on wooden pallets.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

USA - ACGIH	TLV TWA (mg/m ³)	1 fiber/cm ³ (respirable fibers)
USA - NIOSH	REL TWA (mg/m ³)	3 fibers/cm ³ (fiber diameter ≤ 3.5 μm & fiber length ≥ 10 μm) 5 mg/m ³ (total)
USA - OSHA	PEL TWA (mg/m ³)	5 mg/m ³ (respirable) 15 mg/m ³ (total)

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves. Standard EN 388 - Protective gloves against mechanical risk.

Eye protection:

Safety glasses. Standard EN 166 - Personal eye-protection.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust mask with filter type P1. Standard EN149 - Filtering Halfmasks to protect against particles

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Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Roll (blanket), panel (board), pipe section
Colour	: Yellow, depending on binder type and content.
Odour	: Odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Aluminium ~660 °C & Glass wool >700 °C
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Density	: 8 - 110 kg/m ³ Glass wool
Specific gravity	: 2,2 - 2,6 (water = 1)
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

Approximate nominal diameter of fibres	: 3 to 7 µm
Length weight geometric mean diameter less 2 standard errors	: approx. < 6 µm
Orientation of fibres	: Random

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Binder will decompose above 250°C

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heating above 200°C.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Decomposition of binder above 250°C may produce carbon dioxide and some trace gases. The duration of release is dependant upon the thickness of the insulation, binder content and the temperature applied.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

General	: Not toxic, but dust from glass fibre wool may cause irritation or scratchiness of the throat, and/or itching in the eyes and skin.
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: CLP 1272/2008 - Note Q: The classification as a carcinogen need not apply if it can be shown that the substance fulfils one of the following conditions: a short term biopersistence test by intratracheal instillation has shown that the fibres longer than 20 µm have a weighted half-life less than 40 days IARC(2002): Insulation glass wool, rock (stone) wool, and slag wool, and continuous filament glass: Group 3 - Not classifiable as carcinogenic to humans because of the inadequate evidence of carcinogenicity in humans and the relatively low biopersistence of these materials IRIS (EPA 2001) : Glass wool, continuous filament glass, rock wool, slag wool: No cancer assessments The biopersistence of ODE Starflex fibres was investigated on Fraunhofer laboratory according to the protocol of the European Commission (ECB/TM 27 Rev.7, 1998). Following haftimes were calculated (ITEM Study no: 02G09017): WHO fibre fraction (L>5µm, D<3µm, L/D>3/1) ≤ 40 days Long fibres fraction (length >20µm) ≤ 40 days According to Appendix IV Nr.22 of the German Gefahrstoffverordnung (Dangerous Substances Act, Revision date October 12, 2007) for using MMVF for heat and sound insulation in building construction in Germany the half-time of the WHO fibre fraction is less than 40 days. According to Directive 67/548/EEC (revised by guideline 97/69/EG of the Commission dated December 5th , 1997) Note Q, the classification as a carcinogen need not to apply if the halftime for fibres longer than 20 µm is less than 40 days in the biopersistence test by intratracheal instillation.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

12.2. Persistence and degradability

Inert inorganic product with Thermo set, inert polymer based on cured phenol formaldehyde resins; 0 to 10 %.

12.3. Bioaccumulative potential

Not bioaccumulative

12.4. Mobility in soil

Not considered mobile. Less than 1% leachable organic carbon if landfilled.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
European List of Waste (LoW) code	: 17 06 04 - insulation materials other than those mentioned in 17 06 01 and 17 06 03

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SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

EUCEB Information:

All products manufactured by ODE Yalitim are made of non-classified fibres and are certified by EUCEB.

EUCEB, European Certification Board of Mineral Wool Products - www.euceb.org, is a voluntary initiative by the mineral wool industry. It is an independent certification authority that guarantees that products are made of fibres, which comply with the exoneration criteria for carcinogenicity (Note Q) of the Directive 97/69/EC and the Regulation (EC) 1272/2008.

To ensure that fibres comply with the exoneration criteria all tests and supervision procedures are carried out by independent, expert qualified institutions. EUCEB ensures that the producers of mineral wool have put in place self-control measures.

The mineral wool producers commit to EUCEB to:

- supply sampling and analysis reports established by laboratories recognized by EUCEB, proving that the fibres comply with one of the four criteria of exoneration described in Note Q of the Directive 97/69/EC,
- be controlled, twice per year, of each production unit by an independent third party recognized by EUCEB (sampling and conformity to the initial chemical composition),
- put in place procedures of internal self-control in each production unit.

The products responding to the EUCEB certification are recognized by the EUCEB logo put on the packaging.



Further information can be obtained from: www.euceb.org

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent Bioaccumulative Toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product