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

1.1. Product identifier

Product form : Mixture
Trade name : ISOLATEK HEAT-SHIELD

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only
Use of the substance/mixture : Insulation

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier:
Isolatek International (Europe) Ltd.
17 Wellington Street
Ripley, Derbyshire
DE5 3EH
Toll Free: 1 800 631 9600

1.4. Emergency telephone number

Emergency number : +1 703 527 3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1 H314
Skin sensitisation, Category 1 H317
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes severe skn burns and eye damage. May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05 GHS07

Signal word (CLP) : Danger
Contains : Cement, portland, chemicals
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
Precautionary statements (CLP) : P261 - Avoid breathing dust.
P280 - Wear eye protection, protective clothing, protective gloves.
P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a doctor, a POISON CENTER.
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a doctor, a POISON CENTER.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

Other hazards which do not result in classification : Dust may cause mechanical irritation. May temporarily aggravate pre-existing chronic eye, skin and respiratory conditions.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glass, oxide, chemicals substance with a Community workplace exposure limit	(CAS-No.) 65997-17-3 (EC-No.) 266-046-0	80 – 100	Not classified
Cement, portland, chemicals	(CAS-No.) 65997-15-1 (EC-No.) 266-043-4	1 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Obtain medical attention.

First-aid measures after skin contact : Wash off immediately and plentifully with water for at least 20 minutes. Take off immediately all contaminated clothing. Get medical advice if skin irritation persists.

First-aid measures after eye contact : Wash off immediately and plentifully with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. If accidentally swallowed obtain immediate medical attention.

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

Symptoms/effects : May temporarily aggravate pre-existing chronic eye, skin and respiratory conditions.

Symptoms/effects after inhalation : May cause slight temporary irritation. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.

Symptoms/effects after skin contact : Burns. The mechanical effect of fibres in contact with skin may cause temporary itching. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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 : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Presents no particular fire or explosion hazard.

Explosion hazard : No hazard identified.

Hazardous decomposition products in case of fire : No hazardous decomposition products known.

5.3. Advice for firefighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protective equipment for firefighters : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid dust formation. Avoid breathing dust.

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Avoid contact with skin and eyes. Do not breathe dust.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Avoid contact with skin and eyes. Do not breathe dust.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product. Sweep or shovel spills into appropriate container for disposal. Avoid raising powdered materials into airborne dust.

Other information : Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

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. Avoid all unnecessary exposure. Avoid contact with skin and eyes. Do not breathe dust.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Store locked up.

Incompatible materials : None known.

7.3. Specific end use(s)

See Heading 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Glass, oxide, chemicals (65997-17-3)	
EU - Occupational Exposure Limits	
IOELV TWA (mg/m³)	0.3 fibers/mL REFRACTORY CERAMIC FIBRES

Glass, oxide, chemicals (65997-17-3)	
Belgium - Occupational Exposure Limits	
Limit value [mg/m³]	10 mg/m³ (dust and fiber)
Bulgaria - Occupational Exposure Limits	
OEL TWA (mg/m³)	1 mg/m³ Mineral, natural (asbestos-free) and man-made fibers - fibrous particles, respirable fraction
Croatia - Occupational Exposure Limits	
GVI (granična vrijednost izloženosti) (mg/m³)	0.3 fibers/cm³ Ceramic fibers fireproof, classified as carcinogenic substances
Cyprus - Occupational Exposure Limits	
OEL TWA (mg/m³)	10 mg/m³ Glass (fibers and particles)
Czech Republic - Occupational Exposure Limits	
Expoziční limity (PEL) (mg/m³)	4 mg/m³ Synthetic mineral fibers (all sizes)
Denmark - Occupational Exposure Limits	
Grænseværdi (8 timer) (mg/m³)	1 fibers/cm³ KERAMISKE FIBRE
Estonia - Occupational Exposure Limits	
OEL TWA (mg/m³)	1 fibers/cm³ Glass fibers, synthetic and inorganic
Finland - Occupational Exposure Limits	
HTP-arvo (8h) (mg/m³)	5 mg/m³ Continuous filament glass fibers (inhalable dust)
Hungary - Occupational Exposure Limits	
AK-érték	1 fibers/cm³ Other filamentous dust (glass, mineral, ceramics, plastics)
Ireland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	5 mg/m³ 2 fibres/cm3 of air - MINERAL WOOL
Latvia - Occupational Exposure Limits	
OEL TWA (mg/m³)	2 mg/m³ Silicates and alumosilicates: ceramics
Lithuania - Occupational Exposure Limits	
IPRV (mg/m³)	0.2 fibers/cm³ Synthetic inorganic, crystal fibers 1 fibers/cm³ Glass fiber (synthetic inorganic, amorphous fibers)
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m³)	0.5 fibers/cm³ CERAMIC FIBERS, RESPIRABLE
Poland - Occupational Exposure Limits	
NDS (mg/m³)	1 fibers/cm³ Artificial mineral fibers, except refractory ceramic fibers, respirable fibers 0.3 fibers/cm³ Refractory ceramic fibers in a mixture with other artificial mineral fibers
Portugal - Occupational Exposure Limits	
OEL TWA (mg/m³)	1 fibers/cm³ FIBRAS INORGâNICAS ARTIFICIAIS - FIBRAS DE VIDRO DE FILAMENTO CONTíNUO
Slovakia - Occupational Exposure Limits	
NPHV (priemerná) (mg/m³)	2 fibers/cm³ 4 mg/m3 - Artificial mineral fibers (e.g., from basalt, glass, slag, or cinder)
Spain - Occupational Exposure Limits	
VLA-ED (mg/m³)	1 fibers/cm³ Manufactured fibers, artificial vitreous fibers (fiberglass, mineral wool, etc.); Manufactured fibers, other artificial or synthetic fibers (p-Aramid, etc.) 0.5 fibers/cm³ Manufactured fibers, artificial vitreous fibers (refractory ceramic fibers, fibers for special uses, etc.)
Sweden - Occupational Exposure Limits	
nivågränsvärde (NVG) (mg/m³)	1 fibers/cm³ fibers/ml_ FIBRES, SYNTHETIC INORGANIC GLASSY FIBRES (AMORPHOUS): OTHER FIBRES: MINERAL WOOL
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	1 fibers/mL REFRACTORY CERAMIC FIBRES AND SPECIAL PURPOSE FIBRES

Glass, oxide, chemicals (65997-17-3)	
Iceland - Occupational Exposure Limits	
OEL (8 hours ref) (mg/m³)	1 mg/m³ fibers/cm3 - FIBERGLASS (INSULATION FIBERS, MMMF, MAN MADE MINERAL FIBERS, ROCK WOOL)
Norway - Occupational Exposure Limits	
Grenseverdier (AN) (mg/m³)	0.5 fibers/cm³ AES (ALKALINE EARTH SILICATE) WOOL

Cement, portland, chemicals (65997-15-1)	
Austria - Occupational Exposure Limits	
Local name	Portlandzement (Staub)
MAK Daily average value (mg/m³)	5 mg/m³
MAK Short time value [mg/m³]	10 mg/m³
Remark (AT)	inhalable aerosol
Regulatory reference	BGBl. II Nr. 238/2018
Belgium - Occupational Exposure Limits	
Local name	Ciment portland (poussières alvéolaires) # Portlandcement (inadembaar stof)
Limit value [mg/m³]	10 mg/m³
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020
Croatia - Occupational Exposure Limits	
Local name	Prašina portland cementa
GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m³ (total dust, inhalable particles) 4 mg/m³ (respirable dust)
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018)
Finland - Occupational Exposure Limits	
Local name	Sementtipöly
HTP-arvo (8h) (mg/m³)	5 mg/m³ hengittyvä pöly 1 mg/m³ alveolijae
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Remark	(einatembare Fraktion)
Hungary - Occupational Exposure Limits	
Local name	PORTLAND CEMENT
AK-érték	10 mg/m³
Megjegyzések (HU)	inhalable aerosol
Regulatory reference	5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
Ireland - Occupational Exposure Limits	
Local name	Portland Cement [Cement (Portland)]
OEL (8 hours ref) (mg/m³)	1 mg/m³ R (Respirable Fraction)
Regulatory reference	Chemical Agents Code of Practice 2020
Latvia - Occupational Exposure Limits	
Local name	Cements (portlandcements)
OEL TWA (mg/m³)	6 mg/m³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325

Cement, portland, chemicals (65997-15-1)	
Poland - Occupational Exposure Limits	
Local name	Cement portlandzki
NDS (mg/m³)	6 mg/m³ frakcja wdychalna 2 mg/m³ frakcja respirabilna
Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikająca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej. Obowiązuje jednoczesne oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej.
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Cimento Portland
OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
OEL TWA (mg/m³)	10 mg/m³ (dust, inhalable fraction)
Spain - Occupational Exposure Limits	
Local name	Cemento Portland
VLA-ED (mg/m³)	10 mg/m³
Notes	inhalable aerosol
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
United Kingdom - Occupational Exposure Limits	
Local name	Portland cement
WEL TWA (mg/m³)	10 mg/m³ inhalable aerosol 4 mg/m³ respirable aerosol
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

Hand protection:

Impermeable protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Eye protection:

Safety glasses with side shields. EN 166.

Skin and body protection:

In case of repeated or prolonged exposure : Long sleeved protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. In the event that dust and/or fine particles are generated with this product, it is prudent to minimize prolonged inhalation exposure to these forms not to exceed the occupational exposure limit. Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material

Environmental exposure controls:
Do not allow uncontrolled discharge of product into the environment.

Other information:
Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	Grey.
Odour	:	Odourless.
Odour threshold	:	No data available
pH	:	10 – 13 aqueous dispersion
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	> 981 °C (>1800 °F)
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
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	:	No data available
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

No additional information available

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

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid dust formation.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	:	Causes severe skin burns. pH: 10 – 13 aqueous dispersion
Serious eye damage/irritation	:	Assumed to cause serious eye damage pH: 10 – 13 aqueous dispersion
Respiratory or skin sensitisation	:	May cause an allergic skin reaction.

Germ cell mutagenicity	:	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	:	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	:	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	:	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	:	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	:	Not classified (Based on available data, the classification criteria are not met)
Other information	:	Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	This material has not been tested for environmental effects. Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute)	:	Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	:	Not classified (Based on available data, the classification criteria are not met)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Glass, oxide, chemicals (65997-17-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information	:	Do not allow uncontrolled discharge of product into the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	:	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	:	Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	:	Do not allow uncontrolled discharge of product into the environment.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport
Not regulated

Transport by sea
Not regulated

Air transport
Not regulated

Inland waterway transport
Not regulated

Rail transport
Not regulated

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
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Employment restrictions	:	Observe restrictions according Act on the Protection of Working Mothers (MuSchG) Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)
Water hazard class (WGK)	:	WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
WGK Remark	:	Most stringent classification due to insufficient data
Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	Glass, oxide, chemicals,Cement, portland, chemicals are listed
SZW-lijst van mutagene stoffen	:	Glass, oxide, chemicals,Cement, portland, chemicals 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

Denmark

Danish National Regulations	:	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information : None.

Full text of H- and EUH-statements:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Corr. 1	H314	On basis of test data
Skin Sens. 1	H317	Calculation method

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.