

HKO Isolier- und Textiltechnik GmbH

46049 Oberhausen

Date printed 01.08.2011, Revision 28.07.2011

Version 01

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1 Identification of the substance / preparation and of the company

1.1 Product identifier

Haceram Fibre products:

fibers, yarns, twists, webbings, packings, boards, ropes, sleeves,
fabrics, (fibre)needle mats, paper

- with/without chromium steel/V4A-fortification

- with/without glass-yarn reinforcement

- with/without graphitization

- with/without coating with aluminium sheet metal foil,
aluminium vaporized PES-/PET-foil, self adhesive coating

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

1.2.1 Relevant uses

Heat protection and isolating product (SU 3; PROC 1, 5, 21,23,24)

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

HKO Isolier- und Textiltechnik GmbH

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Address enquiries to

Technical information

technik@hko.de

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone

+49 (0) 89-19240 (24h) (english)

2 Hazards identification

2.1 Classification of the substance or mixture

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

Carc. 1A, H350i

Classification according to conversion table Annex VII 1272/2008/EC

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

T, R 49

2.2 Label elements

Hazard symbols



Toxic

Contains:

Refractory Ceramic Fibres

R-phrases

R 49: May cause cancer by inhalation.

S-phrases

S 53: Avoid exposure - obtain special instructions before use.

S 22: Do not breathe dust.

S 24/25: Avoid contact with skin and eyes.

S 38: In case of insufficient ventilation, wear suitable respiratory equipment.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Special labelling

Only for industry consumers.

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2.3 Other hazards

Physico-chemical hazards	See chapter 10.
Human health dangers	See chapter 11.
Environmental hazards	No particular hazards known.
Other hazards	none

3 Composition / Information on ingredients**3.1 Substances**

The product in question is a mixture.

3.2 Mixtures

Range [%]	Substance
85 - 100	Refractory Ceramic Fibres
	EU-INDEX: 650-017-00-8
	GHS/CLP: Carc. 1B, H350
	EEC: T, R 49

Comment on component parts	For the wording of the listed risk phrases refer to section 16. SVHC (Candidate List of Substances of Very High Concern for authorisation) \geq 0,1% CAS - Refractory Ceramic Fibres
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4 First aid measures**4.1 Description of first aid measures**

General information	Change soaked clothing.
Inhalation	Ensure supply of fresh air. Supply with medical care.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No informations available.

4.3 Indication of any immediate medical attention and special treatment neededTreat symptomatically.
Forward this sheet to the doctor.**5 Fire-fighting measures****5.1 Extinguishing media**

Suitable extinguishing media	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
Extinguishing media that must not be used	none

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefightersnot applicable
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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

Avoid dust formation.
Use breathing apparatus if exposed to dust.
Do avoid any (skin) contact with the product.

6.2 Environmental precautions

not applicable

6.3 Methods and material for containment and cleaning up

Take up mechanically. Avoid production of dust.
Use water for binding the dust.
Vacuum up spilled product with vacuum cleaner for carcinogenic substances.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See Chapter 8+13

7 Handling and storage**7.1 Precautions for safe handling**

Avoid the formation and deposition of dust.
Provide vacuuming if dust raised.
Suitable industrial vacuum cleaners or central vacuuming equipment must be used for taking up dust.
Dust deposits that cannot be avoided must be taken up regularly.
With mechanical processing however fibers can be set free.
No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities

No special measures necessary.
Do not store together with food and animal food/diet.
Keep under lock and key. Should only be accessible to specialists or people authorized by them.
Store in a dry place.
Protect from atmospheric moisture and water.

7.3 Specific end use(s)

See product use, Chapter 1.2

8 Exposure controls / personal protection**8.1 Control parameters**

Ingredients with occupational
exposure limits to be monitored (GB)

Range [%]	Substance / WEL: Workplace exposure limit
85 - 100	Refractory Ceramic Fibres / - ppm, - mg/m ³ , 2 fibres/millilitre

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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Using suitable discharges or exhaust ventilation.
Eye protection	Tightly fitting goggles.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Leather (EN 388).
Skin protection	Long-sleeved work clothes.
Other	Avoid contact with eyes and skin. Do not inhale dust. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Use barrier skin cream. Contaminated clothing should be changed and stored in a quarantined area until disposed of as hazardous waste.
Respiratory protection	Respiratory protection in the case of dust formation. Short term: filter apparatus, filter P3. If ventilation insufficient, wear respiratory protection.
Thermal hazards	No informations available.
Delimitation and monitoring of the environmental exposition	not determined

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

Form	solid in different forms
Color	various
Odor	odourless
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure [kPa]	not applicable
Density [g/ml]	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not applicable
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature	not applicable

9.2 Other information

No informations available.

10 Stability and reactivity**10.1 Reactivity**

No hazardous reactions known.

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10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

No informations available.

10.5 Incompatible materials

No informations available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

11 Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Serious eye damage/irritation not determined

Skin corrosion/irritation not determined

Respiratory or skin sensitisation not determined

Specific target organ toxicity — single exposure not determined

Specific target organ toxicity — repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity not determined

Carcinogenicity Classified 2B by IARC. Classified 2 by NTP.

General remarks Contains fibres with diameter below 3 micrometers. The filament is breathable (IARC). Fiber abrasion can cause mechanical skin irritation.

The product was classified on the basis of the calculation procedure of the preparation directive.

12 Ecological information**12.1 Toxicity****12.2 Persistence and degradability**

Behaviour in environment compartments not applicable

Behaviour in sewage plant not applicable

Biological degradability not applicable

12.3 Bioaccumulative potential

No informations available.

12.4 Mobility in soil

No informations available.

12.5 Results of PBT and vPvB assessment

No informations available.

12.6 Other adverse effects

The product is insoluble in water.

Can be separated out mechanically in purification plants.

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13 Disposal considerations**13.1 Waste treatment methods**

Coordinate the waste disposal with the national authorities.

Product

Coordinate disposal with the authorities if necessary.

Waste no. (recommended)170603*
101299**Contaminated packaging**

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)150101
150110***14 Transport information****14.1 UN number**

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name**Classification according to ADR**

NO DANGEROUS GOODS

Classification according to IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Classification according to IATA

NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EEC-REGULATIONS**

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS

DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

NATIONAL REGULATIONS (GB):EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4**15.2 Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

16 Other informations**R-phrases (Chapter 03)**

R 49: May cause cancer by inhalation.

Observe employment restrictions for people

yes

GENERAL REVIEW

VOC (1999/13/CE)

not applicable

Customs Tariff

not determined