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1. Company identification

Trade name: SILCAFLEX 143, 1400Z, SILCALOG 143, SILCAFELT 140Z, SILCABOARD 143, SILCAVAC 143, SILCAPACK 143, -1400Z, SILCABOLCK 143, -1400Z, SILCASTACK 143, 1400Z, SILCAFIX 143, -1400Z

SILCAFLEX products contain **Refractory Ceramic Fibres (RCF)/Alumino-silicate wools (ASW)** ((RCF/ASW)). Index Number 650-017-00-8 (CLP Annex VI) CAS number: 142844-00-6 CAS Name: Refractories, fibres, aluminosilicate Registration number: 01-2119458050-50-XXXX

Identified Use

Use of the products is restricted to "professional users" for application as thermal insulation, heat shields, heat containment, gaskets and expansion joints at temperatures up to 1450°C in industrial furnaces, ovens, kilns, boilers and other process equipment and in the aerospace and automotive industries. Products are not intended for direct sale to the general public

• Secondary Use: Conversion into wet and dry mixtures and articles (refer to section 8)

• Tertiary Use: Installation, removal (industrial and professional) / Maintenance and service life (industrial and professional) (refer to section 8)

Uses Advised Against Spraying of the product

Manufacturer/Supplier:	SILCA Service- und Vertriebsgesellschaft für Dämmstoffe ml Auf dem Hüls 6 D-40822 Mettmann Tel.: 02104/9727-0 Fax.: 02104/9727-25	Ъ
Information departement for technical details:	Tel.: 02104/9727-15 Tel.: 02104/9727-18 E-Mail: reach@silca-online.de	
Emergency information:	Tel.: 02104/9727-15 Tel.: 02104/9727-18	

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2. Hazards identification

2.1 Classification of the substance/mixture

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

Under the CLP-Regulation (classification, labelling and packaging of substances and mixtures) RCF/ASW has been classified as a 1B carcinogen ("presumed to have carcinogenic potential for humans, classification is largely based on animal evidence").

2.1.2 Additional information:

The International Agency for Research on Cancer (IARC) reaffirmed that group 2B ("possibly carcinogenic to humans") remains the appropriate classification for RCF/ASW.

In accordance with 31st Adaptation to Technical Progress (ATP) of Directive 67/548/ECC as published 15th January 2009 the classification as "irritant" has been removed for all types of man made vitreous fibres (MMVFs).

The 1st Adaptation to Technical Progress (ATP) to Regulation (EC) No 1272/2008 entered into force on 25 September 2009. It transfers the 30th and 31st ATPs of Directive 67/548/EEC to the Regulation (EC) No 1272/2008.

2.2 Labelling elements

Component	Classification	Hazard pictogram & Symbol	R Pharse & H Statement
Refractory ceramic fibres (Alumino-silicate wools)	(EC)No.1272/2008	GHS 08	H350i
	Directive 67/548/EEC	т	R49

Signal Word

Danger

Hazard Statements

May cause cancer by inhalation (H350i)

Precautionary statements

Do not handle until all safety instructions have been read and understood. (P202) Use personal protective equipment as required. (P281)

2.3 Other hazards which do not result in classification:

Mild mechanical irritation to skin, eyes and upper respiratory system may result from exposure. These effects are usually temporary

	Safety data sheet conforming to (EC) 1907/2006 and (EC) 1272/2008					
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3.	Composition/information on in	gredients				
	3.1 Composition Chemical composition of Refracto	ory Ceramic Fibres (RCF/ASW): SiO2 pactive under the terms of European				
	COMPONENT CAS NUMBER	Index number in % by weight CLP Annex VI				
	Refractory 142 844 –00 -6 ceramic fibres (Alumino- silicate wools)	650-017-00-8 100				
		ble in a variety of forms: bulks, blanke s, ropes, and cloth), coatings, mixes,				
4.	First aid measures					
	Skin In case of skin irritation rinse affected areas with water and wash gently. Do not rub or scratch expos					
	Eyes In case of eye contact flush abun	Eyes In case of eye contact flush abundantly with water; have eye bath available. Do not rub eyes.				
	Nose and Throat : If nose or throat becomes irritated move to a dust free area, drink water and blow nose. If symptoms persist, seek medical advice.					
5.	Fire fighting instructions					
	Non combustible products. Packa fire is zero.	iging and surrounding materials may	be combustible. Class of reaction to			
	Use extinguishing agent suitable for surrounding combustible materials					
6.	 6. Accidental release 6.1 Personal precautions, protective equipment and emergency procedures Where abnormally high dust concentrations occur, provide workers with appropriate protective equip detailed in section 8. Restrict access to the area to a minimum number of workers required. Restore the situation to normal as quickly as possible. 					
	6.2 Environmental precautions Prevent further dust dispersion for example by dampening the materials Do not flush spillage to drain. Check for local regulations, which may apply.					
	6.3 Methods and materials for o Pick up large pieces and use a va If brushing is used, ensure that th	acuum cleaner fitted with a high efficie	ency filter (HEPA)			

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Do not use compresse Do not allow to be wind				
. Handling and storage				
amount of handling. W using dust exhaust sys	rce of dust emission and therefore the processes henever possible, handling should be carried out			
Always use sealed and Avoid damaging conta Reduce dust emission Emptied containers, w	ging in dry area whilst awaiting use. I visibly labelled containers. ners.			
7.3 Specific end use The main application of these products is as thermal insulation. Use of the products is restricted to "professional users". Please refer to section 8 and the relevant exposure scenario.				
. Exposure controls/ P	ersonal protection			
Industrial hygiene stan Check which exposure other standards apply,	8.1 Control Parameters Industrial hygiene standards and occupational exposure limits vary between countries and local jurisdictions. Check which exposure levels apply to your facility and comply with local regulations. If no regulatory dust or other standards apply, a qualified industrial hygienist can assist with a specific workplace evaluation including recommendations for respiratory protection.			
	alues DELs (December 2010) are given in the table belo on the following websites:	ow. Additional references and/or		

http://www.dguv.de/ifa/en/gestis/limit_values

http://osha.europa.eu/en/publications/reports/548OELs/view

COUNTRY	OEL*
Austria	0.5 f/ml
Belgium	0.5 f/ml
Czech Republic	1.0 f/ml
Denmark	1.0 f/ml
Finnland	0.2 f/ml
France***	0.1 f/ml
Germany***	0.2 f/ml (max. tolerance-concentration)**
Italy	0.2 f/ml
Poland	0.5 f/ml
Spain	0.5 f/ml
Sweden	0.2 f/ml
The Netherlands	0.5 f/ml
UK***	1.0 f/ml

Note:

*8-hr time weighted average concentrations of airborne respirable fibres measured using the conventional membrane filter method

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** In Germany, OELs were replaced by concentration ranges following a risk based concept. The maximum "tolerance-concentration" is 0.2 f/ml following TRGS 558 in combination with BekGS 910. *** Source of OEL is detailed in section 15

The Scientific Committee on Occupational Exposure Limit Values (**SCOEL**) as set up by a Commission Decision (95/320/EC) have proposed an OEL for RCF/ASW of 0.3 f/ml.

8.1.2 Recommended monitoring programmes

France has a monitoring programme in line with test method reference number XP X43-269 dated March 2002, which is used to check for compliance with the OEL of 0.1 f/ml.

The UK follow MDHS 59 specific for MMVF: "Man-made mineral fibre - Airborne number concentration by phase-contrast light microscopy" and MDHS 14/3 "General methods for sampling and gravimetric analysis of respirable and inhalable dust"

Germany recommends following the rules as laid out in TRGS 402 and describes applicable sampling / analytical methods in BGI 505-31 and BGI 505-46.

WHO-EURO method: Determination of airborne fibre number concentrations; A recommended method, by phase-contrast optical microscopy (membrane filter method); World Health Organisation Geneva 1997 ISBN 924 154496 1.

8.1.3 DNEL/DMEL

The calculation of DMELs for fibres alone is not possible; a precautionary value is assigned based on fibrosis. An inhalation DMEL of 0.5 mg/m3 with an assessment factor of 25 can be calculated based on repeated dose toxicity, this value in the correct units would give a DMEL of 4 f/ml.

8.2 Exposure Controls

8.2.1 Appropriate engineering controls

Review your application(s) and assess situations with the potential for dust release. Where practical, enclose dust sources and provide dust extraction at source. Designate work areas and restrict access to informed and trained workers. Use operating procedures that will limit dust production and exposure of workers. Keep the workplace clean. Use a vacuum cleaner fitted with a HEPA filter; avoid using brooms and compressed air. If necessary, consult an industrial hygienist to design workplace controls and practices. The use of products specially tailored to your application(s) will help to control dust. Some products can be delivered ready for use to avoid further cutting or machining. Some could be pre-treated or packaged to minimise or avoid dust release during handling. Consult your supplier for further details

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Table of Uses an Risk Management Measures (RMM):

Intended use	RMM - Hierarchy of Controls
Secondary use – Conversion into wet and dry mixtures and articles. Process would include: Mixing forming operations, handling of RCF/ASW products, assembly of RCF/ASW containing products, machine and hand finishing of RCF/ASW products. Reference ES 2*	 Where it is practical to do so, automatically feed RCF/ASW in to the process Where practical to do so, segregate dry and wet processing Enclose the process where practically possible. Where practical to do so, segregate machine areas and restrict access to operators involved in the process. Enclose Machines as far as practically possible. Install LEV where possible, when machine finishing, handling, compressing and hand cutting to remove dust at source Employ experienced personnel – trained in the correct use of fibrous products PPE and RPE used for all dusty tasks Provide vacuum cleaner connection point to central system where practical or use a portable HEPA vacuum Regular clean up – using a wet scrubbing unit where practically possible and in general a HEPA vacuum should be used. Dry brushing and use of compressed air should be prohibited Waste materials to be contained at source, labelled and stored
Intended use	separately for disposal or recycling. RMM - Hierarchy of Controls
Tertiary use - maintenance and service life (Industrial or professional use) Process: Small scale repairs involving removal and installation of RCF/ASW products. Use of the product in an enclosed system, where there is occasional control access or no access. Reference ES 3*	 Use pre-cut, pre-sized pieces where practically possible. Allow access only to trained (authorised) operators Where practically possible, perform all hand cutting in a segregated area, on a down draft bench. Clean up work area regularly during the shift using a HEPA equipped vacuum cleaner. Prohibit use of dry brushing and compressed air cleaning. Bag and seal waste immediately at source. Use PPE and RPE appropriate to task. Employ good hygiene practices.
Intended use Tertiary use- installation and removal (industrial or professional). Large scale removal and installation of RCF/ASW from Industrial processes. Large scale removal and installation by professionals. Reference ES 4*	RMM - Hierarchy of Controls - Where practically possible enclose or segregate the work area. - Allow only authorised personnel. - Pre-wet insulation prior to removal where practically possible. - Where practically possible use a water lance for removal or vacuum-truck. - Use down draft bench for hand cutting products. - Cover pre-cut section during transport and storage to prevent secondary exposure. - Where practically possible provide multiple vacuum hoses for convenient cleanup of spillage or use portable HEPA filtered vacuums. - Bag waste materials immediately at source - Prohibit use of dry brushing and or compressed air cleaning. - Experienced personnel only - Use appropriate PPE and RPE appropriate to expected concentrations

* Exposure Scenarios are available in full from your SILCA supplier (ES 2, ES3 and ES4)

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8.2.2 Personal Protective Equipment

Skin Protection

If working with virgin material, wear industrial leather gloves and work clothes, which are loose fitting at the neck and wrists. Soiled clothes should be cleaned to remove excess dust before being taken off (e.g. use vacuum cleaner, not compressed air). Each worker should be provided with two lockers in an appropriate changing and washing area. It is good hygiene practice to ensure work clothes are washed separately by the employer. Work clothes should not be taken home.

Eye Protection

As necessary, wear goggles or safety glasses with side shields

Respiratory Protection

For dust concentrations below the exposure limit value, RPE is not required but FFP2 respirators may be used on a voluntary basis.

For short term operations where excursions are less than ten times the limit value, use FFP3 respirators. In case of higher concentrations or where the concentration is not known, please seek advice from your company and/or your supplier.

You may also refer to the ECFIA code of practice available on the ECFIA's web site: www.ecfia.eu

Information and Training of workers

This should include:

The applications involving RCF/ASW-containing products;

The potential risk to health resulting from the exposure to fibrous dust;

The requirements regarding smoking, eating and drinking at the workplace;

The requirements for protective equipment and clothing;

The good working practices to limit dust release;

The proper use of protective equipment.

8.2.3 Environmental Exposure Controls

RCF/ASW is inorganic, inert and stable and it is not soluble in water (solubility <1mg/litre) and as such does not pose a detrimental effect on the environment.

Processes involving the manufacturing or use of RCF/ASW should be filtered to minimise fibre emissions to air Waste RCF/ASW should be stored in closed containers and placed in to deep landfills, giving therefore little opportunity for release.

General good practice for spills and waste is to prevent products from being wind blown, by covering and damping the waste materials. Contain spillages to prevent access to drain.

Refer to local, national or European applicable environmental standards for release to air water and soil. For waste, refer to section 13

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).	Physical and chemical properties					
	9.1 Information on basic physical and che	emical properties				
	APPEARANCE White solid	PARTITION COEFFICIE	ENT Not applicable			
	BOILING POINT Not applicable	ODOUR None				
	FLASH POINT Not applicable	MELTING POINT 174	0°C			
	AUTOFLAMMABILITY Not applicable	FLAMMABILITY Not a	applicable			
	OXIDISING PROPERTIES Not applicable		TIES Not applicable			
	SPECIFIC GRAVITY Not applicable	VAPOUR PRESSURE	Not applicable			
	SOLUBILITY Less than 1 mg/l	pH Not applicable				
LENGTH WEIGHTED GEOMETRIC MEAN DIAMETER OF FIBRES CONTAINED IN THE PROPERTY 1.4 - 3 μm						
	9.2 Other safety Information These fibres are dense materials and so will	9.2 Other safety Information These fibres are dense materials and so will settle rapidly from both air and liquid				
0.	Stability and reactivity					
	10.1 Reactivity RCF/ASW is stable and non reactive.					
	10.2 Chemical stability RCF/ASW is inorganic, stable and inert					
	10.3 Possibility of hazardous reactions None					
	10.4 Conditions to avoid Please refer to handling and storage advice in Section 7					
10.5 Incompatible materials None						
	10.6 Hazardous decomposition products Upon heating above 900°C for sustained periods, this amorphous material can begin to transform to mixtures of crystalline phases. For further information please refer to Section 16.					
11.	Toxicological information					
	11.1 Toxicokinetics, metabolism and distribution					
	11.1.1 Basic toxicokinetic Exposure is predominantly by inhalation or in have not been shown to migrate from the lur body					
	When compared to many naturally occurring in the body (half-life of long fibres (> 20 µm)					

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11.1.2 Human Toxicological data

In order to determine possible human health effects following RCF exposure, the University of Cincinnati has been conducting medical surveillance studies on RCF workers in the U.S. The Institute of Occupational Medicine (IOM) has conducted medical surveillance studies on RCF workers in European manufacturing facilities.

Pulmonary morbidity studies among production workers in Europe and USA have demonstrated an absence of interstitial fibrosis and no decrement in lung function associated with current exposures, but have indicated a reduction of lung capacity among smokers.

A statistically significant correlation between pleural plaques and cumulative RCF exposure was evidenced in the USA longitudinal study.

The USA mortality study did not show evidence of increased lung tumour development either in the lung parenchyma or in the pleura.

11.2 Information on Toxicological effects

Acute toxicity: short term inhalation

o No data available: Short term tests have been undertaken to determine fibre (bio) solubility rather than toxicity; repeat dose inhalation tests have been undertaken to determine chronic toxicity and carcinogenicity.

Acute toxicity: oral

o No data available: Repeated dose studies have been carried out using gavage. No effect was found.

Skin corrosion/irritation:

o Not possible to obtain acute toxicity information due to the nature of the substance

Serious eye damage/irritation:

o Not possible to obtain acute toxicity information due to the nature of the substance

Respiratory or skin sensitisation

o No evidence from human epidemiological studies of any respiratory or skin sensitisation potential

Germ cell mutagenicity

- o Method: In vitro micronucleus test
- o Species: Hamster (CHO)
- o Dose: 1-35 mg/ml
- o Routes of administration: In suspension
- o Results: Negative

Carcinogenicity

- o Method: Inhalation. Multi-dose
- o Species: Rat,
- o Dose: 3 mg/m3, 9 mg/m3 and 16 mg/m3
- o Routes of administration: Nose only inhalation

o Results: Fibrosis just reached significant levels at 16 and 9 mg/m3 but not at 3 mg/m3. None of the parenchymal tumour incidences were higher than the historical control values for this strain of animal.

- o Method: Inhalation. Single dose
- o Species: Rat
- o Dose: 30 mg/m3
- o Routes of administration: Nose only inhalation

o Results: This study was designed to test the chronic toxicity and carcinogenicity of RCF at extreme exposures. Tumour incidence (incl. mesothelioma) was raised at this dose level. The presence of overload conditions (only detected after the experiment was completed), whereby the delivered dose exceeded the

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clearance capability of the lung, makes meaningful conclusions in terms of hazard and risk assessment difficult.

o Method: Inhalation. Single dose

o Species: Hamster

o Dose: 30 mg/m3

o Routes of administration: Nose only inhalation

o Results: This low quality study in hamsters (no justification for exposure concentration used and pre existing and concurrent infections in the test animals) produced mesothelial lesions of uncertain significance. Subsequent studies in hamsters with glass fibres indicated that the lung burdens of RCF in this experiment were between 5 and 10 times more than that needed to produce overload, and the results are therefore difficult to interpret.

There are reports of injection studies with some similar materials. While some intraperitoneal injection (IP) studies reported the development of tumours in rats, the relationship of these results to classification remains controversial.

Reproductive toxicity;

o Method: Gavage

o Species: Rat

o Dose: 250mg/kg/day

o Routes of administration: Oral

o Results: No effects were seen in an OECD 421 screening study. There are no reports of any reproductive toxic effects of mineral fibres. Exposure to these fibres is via inhalation and effects seen are in the lung. Clearance of fibres is via the gut and the faeces, so exposure of the reproductive organs is extremely unlikely.

STOT-Single exposure; NA STOT-Repeated exposure; NA Aspiration hazard: NA

Irritant Properties

Negative results have been obtained in animal studies (EU method B 4) for skin irritation. Inhalation exposures using the nose only route produce simultaneous heavy exposures to the eyes, but no reports of excess eye irritation exist. Animals exposed by inhalation similarly show no evidence of respiratory tract irritation.

Human data confirm that only mechanical irritation, resulting in itching, occurs in humans, Screening at manufacturers' plants in the UK has failed to show any human cases of skin conditions related to fibre exposure.

12. Ecological information

These products are inert materials that remain stable overtime.

These products are insoluble in the natural environment and are chemically identical to inorganic compounds found in the soil and sediment.

RCF/ASW is inorganic and a dense material, which will settle rapidly from both air and liquid.

No adverse effects of this material on the environment are anticipated.

13. Disposal considerations

13.1 Waste treatment

Waste containing > 0.1% RCF/ASW is categorised as a stable non-reactive hazardous waste, which can generally be disposed of at landfill sites licensed for this purpose

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	containers for disposal. At some a ensure they are dealt with prompti Please refer to the European list (I		s may be treated differently in order to I) to identify your appropriate		
	When disposing of waste and assigning European Waste Code (EWC) any possible contamination during use will need to be considered and expert guidance sought as necessary.				
14.	Transport information				
	Not classified as dangerous goods IMDG, ADN).	under relevant international transpor	rt regulations (ADR, RID, IATA,		
	Ensure that dust is not wind blown during transportation.				
	Definitions: ADR Transport by road, Council Directive 94/55/EC IMDG Regulations relating to transport by sea RID Transport by rail, Council Directive 96/49/EC ICAO/IATA Regulations relating to transport by air ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterwa				
15.	Regulatory information				
	15.1 Safety, health and environment regulations/legislation specific for the substances or mixtures				
	Restriction of Chemicals (REACH) - Regulation (EC) No 1272/2008 d substances and mixtures (OJ L 35 - Commission Directive 97/69/EC Council Directive 67/548/EEC (OJ - Commission regulation (EC) No	ated 20th January 2009 on classificat 3) of 5 December 1997 adapting to tech	tion, labeling and packaging of nical progress for the 23rd time ng, for the purposes of its adaptation		

Inclusion of RCF/ASW on the Candidate List of SVHC:

Council on classification, labeling and packaging of substances and mixtures.

RCF are classified as a carcinogenic substance CLP 1B. On the 13th of January 2010 ECHA updated the Candidate List (containing substances of very high concern – SVHC – potentially qualifying for authorisation) and added 14 new substances in this list including aluminosilicate refractory ceramic fibres and zirconia aluminosilicate refractory ceramic fibres.

As a consequence, EU (European Union) or EEA (European Economical Area) suppliers of articles which contain aluminosilicate refractory ceramic fibres and zirconia aluminosilicate refractory ceramic fibres in a concentration above 0.1% (w/w) have to provide sufficient information, available to them, to their customers or upon requests to a consumer within 45 days of the receipt of the request. This information must ensure safe use of the article and as minimum contains the name of the substance.

Restriction on Marketing of RCF/ASW

Marketing and use of RCF/ASW is controlled by Directive 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations as modified (21st amending, Directive 2001/41/EC, 19 June 2001) and is restricted to professional use only.

PROTECTION OF WORKERS

Shall be in accordance with several European Directives as amended and their implementations by the Member States:

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- Council Directive 89/391/EEC dated 12 June 1989 "on the introduction of measures to encourage improvement in the safety and health of workers at work (OJEC (Official Journal of the European Community) L 183 of 29 June 1989, p.1).

- Council Directive 98/24/EC dated 7 April 1997 "on the protection of workers from the risks related to chemical agents at work" (OJEC L 131 of 5 May 1998, p.11).

- Council Directive 2004/37/EC of 29 April 2004 on the protection of workers from risks related to exposure to carcinogens mutagens and reprotoxics at work (OJEC L 158 of 30 April 2004).

Other EU Regulations:

Member states are in charge of implementing European directives into their own national regulation within a period of time normally given in the directive. Member States may impose more stringent requirements. Please always refer to national regulations.

Source of reference for the OELs:

UK: HSE EH40 Workplace Exposure Limit

France: Décret N°2007-1539 du 26 octobre 2007 fixant des valeurs limites d'exposition professionnelle contraignantes pour certains agents chimiques et modifiant le code du travail **Germany**: Änderung und Ergänzung der Bekanntmachung BekGS 910 / TRGS 558 and TRGS 905

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for RCF/ASW.

16. Other information

USEFUL REFERENCES (the directives which are cited must be considered in their amended version)

- Hazards from the use of Refractory Ceramic Fibre. Health and Safety Executive: Information document, HSE 267 (1998).

- Working with High Temperature Insulation wools 2006;

- ECFIA; Code of Practice.

- Maxim LD et al (1998). CARE – A European programme for monitoring and reducing Refractory Ceramic

Fibre dust at the workplace initial results; Gefahrstoffe – Reinhaltung der Luft, 58:3,97-103.

- Recognition and control of exposure to RCF, ECFIA, April 2009

- TRGS 619 – Technical Rules for Hazardous substances:

Substitution Products for Aluminium silicate wools.

Additional information and precautions to be considered upon removal of after service material

In almost all applications RCF/ASW is used as an insulating material helping to maintain a temperature of 900°C or more in a closed space. As only a thin layer of the insulation (hot face side) is exposed to high temperatures, respirable dust generated during removal operations does not contain detectable levels of crystalline silica (CS).

In applications where the material is heat soaked, duration of heat exposure is normally short and a significant

devitrification allowing CS to build up does not occur. This is the case for waste mould casting for instance. Toxicological evaluation of the effect of the presence of CS in artificially heated RCF/ASW material has not shown any increased toxicity *in vitro*. Combinations of factors such as increased brittleness of fibres, or microcrystals being embedded in the glass structure of the fibre and therefore not being biologically available may explain the lack of toxicological effects.

The IARC evaluation as provided in Monograph 68 is not relevant as CS is not biologically available in afterserviceRCF/ASW.

High concentrations of fibres and other dusts may be generated when after-service products are mechanically

disturbed during operations such as wrecking. Therefore ECFIA recommends:

a) control measures are taken to reduce dust emissions;

b) all personnel directly involved wear an appropriate respirator to minimise exposure; and

c) Compliance with local regulatory limits.

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CARE PROGRAMME

ECFIA, representing the high temperature insulation wool (HTIW) industry, has undertaken an extensive industrial hygiene programme to provide assistance to the users of all products containing HTIW. The objectives are twofold:

•to monitor workplace dust concentrations at both manufacturers' and customers' premises.

•to document manufacturing and use of RCF products from an industrial hygiene perspective in order to establish appropriate recommendations to reduce exposures. If you wish to participate in the CARE programme, contact ECFIA or your supplier.

SPRAYING

ECFIA recommends that this fibre is not used for spraying

The directives and subsequent regulations detailed in this Safety Data Sheet are only applicable to the European Union (EU) Countries and not to countries outside of the EU.

Websites

European Industry Association Representing HTIW (ECFIA): 3, Rue du Colonel Moll, 75017 Paris Tel. +33 (0) 31 48 74 26

	WW	w.e	cfia	l.eu
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Other Ingredients in ASW products with zircon					
Products	Siginficant	Hazard	Risk Pharse		
	Ingredients (%by weight)	(DSD)warning	(DSD)		
SILCAFLEX 143	Organic	None	None		
Lubricated bulk	Lubricant (<1%)	assigned	assigned		
SILCAFLEX 143	None	None	None		
Non lubricated bulk					
SILCAFLEX 143 and 1400Z Blankets	None	None	None		
SILCALOG 143 Module	None	None	None		
SILCAFELT 140Z	Acrylic latex (<15%)	None	None		
Papers and Felts					
SILCABOARD 143 Boards	Amorphous Silica (<15%)	None	None		
SILCAVAC 143 Shapes	Cellulose (<5%),				
	Koalin (<10%)				
SILCAPACK 143 and 1400Z Stripes	None	None	None		
SILCABLOCK 143 and 1400Z Modules	None	None	None		
SILCASTACK 143 and 1400Z Modules	None	None	None		
SILCAFIX 143 and 1400Z Modules	None	None	None		

Further hints

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS:

SILCA Service- und Vertriebsgesellschaft für Dämmstoffe mbH Auf dem Hüls 6 D-40822 Mettmann