

SAFETY DATA SHEET

(Following Regulations (EC) No 1907/2006 & (EC) No 1272/2008)

SDS Number: 1013 Date of first issue: 01 February 2003 Date of last revision: 21 February 2022

1 - Identification of product

1.1 - Identification of Product

Tradenames: 1260 Mouldable, Kaofil Pumpable, Kaofil Type D,

These products contain Refractory Ceramic Fibres (RCF)/Alumino-silicate wools (ASW) ((RCF/ASW)). Index Number: 650-017-00-8 of Annex VI

CAS number: 142844-00-6

CAS Name: Refractories, fibres, aluminosilicate Registration number: 01-2119458050-50-0002

1.2 - Use of Product

This product is used to fill gaps in refractory applications particularly fibre-based refractories. It is highly resistant to spalling and cracking and has also very good adhesive properties. Mastic could be used as seam filler, gap filler, caulking agent, patching repair material, lining material for launders, and so on. (Please refer to specific technical data sheet for more information)

Murugappa Morgan Thermal Ceramics Ltd.,

Plot No: 681, Motibhoyan Village, Sanand-Kalol state Highway, Kalol Taluk,

Gandhi Nagar District, Gujarat, India

- · Primary Use: Manufacture of fibre (this use refers to the initial production of the fibre and is therefore not relevant to the downstream user)
- 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)

1.3 - Identification of Company

IDENTIFICATION OF THE MANUFACTURER/SUPPLIER

Murugappa Morgan Thermal Ceramics Ltd., Plot No: 26 & 27, SIPCOT Industrial complex, Ranipet, Vellore District, Tamil Nadu, India Pin: 632403

www.morganthermalceramics.com sds.tc@morganplc.com

1.4 - Emergency information

EMERGENCY CONTACT NUMBER

Tel 1: +91 (4172) 244 313 extn no. 215 or 201

Language: English

Opening hours: Only available during office hours

2 - Hazard Identification

2.1 - Classification of the substance/ mixture

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

Under the Classification, Labelling and Packaging regulations (CLP) 1272/2008 EEC RCF/ASW has been classified as a 1B carcinogen.

The International Agency for Research on Cancer (IARC) reaffirmed in 2001 that group 2B ("possibly carcinogenic to humans") remains the appropriate classification for RCF/ASW. In accordance with 1st adaptation to Technical Progress of Regulation (EC) No 1272/2008 as published 10th August 2009, the classification as "irritant" has been removed for all types of manmade vitreous fibres (MMVFs).

2.2 - Labelling Elements

Component	Classification	Hazard pictogram & Symbol	H Statement
Refractory Ceramic Fibres (Alumino-silicate wools)	(EC)No. 1272/2008.	GHS 08	H350I

Hazard pictogram **GHS 08**



Signal Word Danger

May cause cancer by inhalation (H350i) **Hazard Statements**

Do not handle until all safety instructions have been

Precautionary read and understood. (P202) statements

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

CHRONIC RESPIRATORY HEALTH EFFECTS FOR ETHYLENE GLYCOL

NIOSH recently described evidence that ethylene glycol has potential reproductive hazards by inhalation of ethylene glycol mist.

3 - Composition / Information On Ingredients

3.2 Mixture

These products in the form of mouldable mastics are made of refractory ceramic fibres. Once dried out, these products may generate dust.

COMPONENT	%	CAS Number	REACH Registration Number	Hazard Classification according to CLP
Refractory Ceramic Fibre	15-50	142844-00-6	01- 2119458050-50	Carc 1B (H350i)
Colloïdal silica	40-80	7631-86-9	01- 2119379499-16	Not classified
Water	0-30	7732-18-5	Not yet available	Not classified
Organic material	< 5	Not applicable	Not yet available	Not classified
Ethylene glycol	1-9	107-21-1	01- 2119456816-28	Acute Tox 4 (H302)

Composition:

CAS definition: Chemical composition of Refractory Ceramic Fibres (RCF/ASW):

SiO2: 45-60 %, Al2O3: 28-55 %, ZrO2 < 18%

None of the components are radioactive under the terms of European Directive Euratom 96/29.

4 - First-Aid measures

Skin

In case of skin irritation rinse affected areas with water and wash gently. Do not rub or scratch exposed skin.

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In case of eye contact flush abundantly with water; have eye bath available. Do not rub eyes. Seek medical attention is irritation persists.

Nose and Throat

If these become irritated move to a dust free area, drink water and blow nose. Seek medical attention if irritation persists.

If symptoms persist, seek medical advice.

4.2 - Most Important symptoms and effects, both acute and delayed

No symptoms or effects expected either acute or delayed

4.3 - Indication of any immediate medical attention and special treatment required

No special treatment required, if exposure occurs wash exposed areas to avoid irritation.

5 - Fire-fighting measures

5.1 - Extinguishing media

Use extinguishing agent suitable for surrounding combustible materials.

5.2 - Special hazards arising from the substance or mixture

Non combustible products. However, virgin product binder may burn and produce gases and/or fumes.

5.3 - Advice for firefighters

Packaging and surrounding materials may be combustible.

6 - Accidental Release Measures

6.1 - Personal precautions, protective equipment and emergency procedures

When material is wet use gloves, boots and rubber protection clothes when cleaning up

Where abnormally high dust concentrations occur, provide workers with appropriate protective equipment as 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 damping the materials

Do not flush spillage to drain and prevent from entering natural watercourses.

Check for local regulations, which may apply

6.3 - Methods and materials for containment and clean up

Pick up large pieces and use a vacuum cleaner fitted with high efficiency filter (HEPA)

If brushes are used, ensure that the area is wetted down first.

Do not use compressed air for clean-up.

Do not allow to be windblown.

Use gloves, boots and rubber protection clothes when cleaning up.

Avoid clean up procedure that could result in water pollution.

6.4 - Reference to other sections

For further information, please refer to sections 7 and 8

7 - Handling and storage

7.1 - Precautions for safe handling

Do not handle wet product with bare hands. The process or processes should be designed to limit the amount of handling. Regular good housekeeping will minimise secondary dispersal.

7.2 - Conditions for safe storage

Store in dry and cool condition. Always use sealed and clearly labelled containers. Avoid storage in temperature lower than +5°C (risk of solidification) or above +40°C. Avoid damaging the packaging and keep closed when not in use. Emptied containers, which may contain debris, should be cleaned before disposal or recycling. Recyclable cardboard and/or plastic films are recommended for packaging.

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

8 - Risk Management Measures / Exposures Controls / Personal Protection

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. Examples of exposure limits applying (in November 2014) in different countries are given below:

		Februaria		
COUNTRY	RCF (fibre/ml)	Ethylene Glycol (mg/m3)	Source	
EU BOELV	0.3		Carcinogens and Mutagens Directive (DIRECTIVE 2004/37/EC)	
Austria	0.5	No limit	Grenzwerteverordnung	
Belgium	0.5	52	Valeurs limites d'exposition professionnelle – VLEP/ Grenswaarden voor beroepsmatige blootstelling – GWBB	
Denmark	1	10	Grænseværdier for stoffer og materialer	
Finland	0.2	50	Finnish Ministry of Social Affairs and Health	
France	0.1	52	Institut National de Recherche et de Sécurité	
Germany*	0.2*	26	TRGS 900	
Hungary	1	53	EüM-SZCSM rendelet	
Ireland	1	10	HAS - Ireland	
Italy	0.3	52	Decree No. 44/20	
Luxembourg	0.5	No limit	Agents Chimiques, Cancérigènes Ou Mutagènes Au Travail	
Netherlands	0.5	10	SER	
Norway	0.1	10	Veiledning om administrative normer for forurensning i arbeidsatmosfære	
Poland	0.5	15	Dziennik Ustaw 2010	
Spain	0.5	52	INSHT	
Sweden	0.2	25	AFS 2005:17	
Switzerland	0.25	26	SUVA - Valeurs limites d'exposition aux postes de travail	
UK	1	10	EH40/2005	

8.1.1 DNEL/DMEL (DERIVED NO-EFFECT LEVEL/DERIVED MINIMAL EFFECT LEVEL)

SCOEL (Scientific Committee on Occupational Exposure Limits) published a report in 2012 using all available data to set an OEL for RCF, because this substance is a fibre and its hazard is related to inhalation, this OEL is more appropriate than a modelled DNEL. The report concludes as follows:

Assuming a 45 years exposure the average cumulative exposures of 147.9 and 184.8 fmo/ml, respectively, result in an average fibre concentrations of 0.27 and 0.34 f/ml. Considering these values as no observed adverse effect levels SCOEL proposes an OEL of 0.3 f/ml.

Information on monitoring procedures

United Kingdom

MDHS59 - "Machine Made fibre - Airborne number concentration and classification by phase contrast light microscopy"

MDHS88 - "Volatile organic compounds in air '

NIOSH 5523 "Glycols"

NIOSH 7400 "Asbestos and other fibres by PCM"

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 never use compressed air for clean up.

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 pretreated or packaged to minimise or avoid dust release during handling. Consult your supplier for further details

Table of Uses and Risk Management Measures (RMM):

Intended use	RMM - Hierarchy of Controls		

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. 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 separately for disposal or recycling.
RMM - Hierarchy of Controls
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.
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

8.2.2 - Personal Protective Equipment

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 applicable exposure limit value, RPE is not required but FFP2 respirators should be provided for use on a voluntary basis.

For short term operations where excursions are less than ten times the applicable 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 windblown, 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 section13

9 - Physical and chemical properties

Information on basic physical and chemical properties Not Applicable White paste State Not appicable Colour Odour None Odour threshold Not Applicable рΗ Not applicable Not determined Melting point/freezing point Initial boiling point and boiling point range Not applicable Flash point Not applicable **Evaporation rate** Not Applicable Flammability (solid, gas) Not applicable Not applicable Upper/lower flammability or explosive limits Not applicable Vapour pressure

 Vapour density
 Not Applicable

 Relative density
 1.2 - 1.4 kg/dm³ (wet)

 Solubility(ies)
 Not applicable

 Partition co-efficient: n-octanol/water
 Not applicable

 Auto-ignition temperature
 Not applicable

 Decomposition temperature
 Not Applicable

 Viscosity
 Not Applicable

Other safety information Length Weighted Geometric Mean Diameter 1.4 - 3 µm

 Particle Characteristics
 Not appicable

 Explosive properties
 Not applicable

 Oxidising properties
 Not applicable

10 - 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

During first heating, oxidation products from the organic binder might be emitted in a temperature range from 180°C to 600°C. It is recommended to ventilate the room until gases and fumes have disappeared. Avoid exposure to high concentrations of gas or fumes.

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 begins to transform to mixtures of crystalline phases. For further information please refer to Section 16.

11 - Toxicological information

Toxicokinetics, metabolism and distribution

Exposure is predominantly by inhalation or ingestion. Man made vitreous fibres of a similar size to RCF/ASW have not been shown to migrate from the lung and/or gut and do not become located in other organs of the body

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.A. 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 U.S.A. have demonstrated an absence of interstitial fibrosis. In the European study a reduction of lung capacity among smokers has been identified, however, based on the latest results in the U.S.A. study this reduction is no longer statistically significant.

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

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

11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

Experimental studies for RCF

Acute toxicity: short term inhalation

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

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

Not a chemical irritant according to test method OECD no. 404

Serious eve damage/irritation:

Not possible to obtain acute toxicity information due to the morphology and chemical inertness of the substance

· Respiratory or skin sensitisation

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

Germ cell mutagenicity;

Method: In vitro micronucleus test Species: Hamster (CHO)

Dose: 1-35 mg/ml

o Routes of administration: In suspension

o Results: Negative

Carcinogenicity;

Method: Inhalation. Multi-dose

Species: Rat,

Dose: 3 mg/m3,9 mg/m3 and 16 mg/m3

Routes of administration: Nose only inhalation

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

Method: Inhalation. Single dose

Species: Rat

Dose: 30 mg/m3

Routes of administration: Nose only inhalation

Results: Rats were exposed to a single concentration of 200 WHO fibres/ml specially prepared RCF for 24 months. High incidence of exposure-related pulmonary neoplasms (bronchoalveolar adenomas and carcinomas) were observed. A small number of mesotheliomas were observed in each of the fibre exposure groups (Mast et al 1995a).

Method: Inhalation. Single dose

Species: Hamster Dose: 30 mg/m3

Routes of administration: Nose only inhalation

Results: Hamsters were exposed to a single concentration of 260 WHO fibres/ml specially prepared RCF for 18 months and developed lung fibrosis, a significant number of pleural mesotheliomas (42/102) but no primary lung tumours (McConnell et al 1995).

Method: Inhalation. Single dose

Species: Rat

Dose: RCF1: 130 F/ml and 50 mg/m3 (25% of non fibrous particles)

RCF1a: 125 F/ml and 26 mg/m3 (2% of non fibrous particles)

Routes of administration: Nose only inhalation

Results: Rats were exposed to RCF1 and RCF1a for 3 weeks. The objective of the study was to compare lung retention and biological effects of the original RCF1 compared to RCF1a. The main difference of these 2 samples was the non fibrous particle content of respectively 25% versus 2%. The post treatment observation was 12 months. Alveolar clearance was barely retarded after RCF1A exposure. After RCF1 exposure, however, a severe retardation of clearance was observed. (Bellmann et al 2001) (Source: publication)

After intraperitoneal injection of ceramic fibres into rats in three experiments (Smith et al 1987, Pott et al 1987, Davis et al 1984), mesotheliomas were found in the abdominal cavity in two studies, while the third report (Pott et al 1987) had incomplete histopathology. Only a few mesotheliomas were found in the abdominal cavity of hamsters after intraperitoneal injection in one experiment (Smith et al 1987). However, the ceramic fibres tested were of relatively large diameter. When rats and hamsters were exposed via intraperitoneal injection, tumour incidence was related to fibre length and dose (Smith et al 1987, Pott et al 1987, Miller et al 1999, Pott et al 1989). (From SCOEL publication (EU Scientific Committee on Occupational Exposure Limits) publication SCOEL/SUM/165, October 2010)

Reproductive toxicity;

Method: Gavage Species: Rat

Dose: 250mg/kg/day

Routes of administration: Oral

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: Not applicable
- · STOT-Repeated exposure: Not applicable
- · Aspiration hazard: Not applicable

Experimental studies for Ethylene Glycol

Ethylene glycol toxicity by ingestion includes kidney effects with oxalate crystal deposition and liver damage. By inhalation exposure, lung changes and irritation of mucosal surfaces occurred in rats. A slight effect on reproduction was seen in mice administered 2000 mg/kg/day in their drinking water. During the studies with pregnant animals where high doses of ethylene glycol have been administered, foetal and maternal toxicity was observed.

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

12.1 - Toxicity

These products are insoluble materials that remain stable overtime and are chemically identical to inorganic compounds found in the soil and sediment; they remain inert in the natural environment

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

12.2 - Persistence and degradability

Not established

12.3 - Bioaccumulative potential

Not established

12.4 - Mobility in soil

No information available

12.5 - Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulative (vPvB).

12.6 - Endocrine Disrupting Properties

No additional information available

12.7 - Other adverse effects

13 - Disposal Considerations

13.1 - Disposal Considerations

14 - Transport information

14.1 - Transport information

Not classified as dangerous goods under relevant international transport regulations (Australian DG Code, ADR, RID, IATA, and IMDG). Ensure that dust is not windblown during transportation.

UN Number None Allocated DG Class None Allocated Subsidiary risk(s) None Allocated Packing Group None Allocated Hazchem Code None Allocated

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 to program the International Programment and Page 1979 (1979).

ICAO/IATA Regulations relating to transport by air ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

15 - Regulatory information

15.1 - Regulatory information

This SDS has been prepared in accordance with WHO GHS rev. 6 requirements. Where applicable, local regulations have been followed.

16 - Other Information

16.1 - ADDITIONAL INFORMATION AND PRECAUTIONS TO BE CONSIDERED UPON REMOVAL OF AFTER SERVICE MATERIAL

ADDITIONAL INFORMATION AND PRECAUTIONS TO BE CONSIDERED UPON REMOVAL OF AFTER SERVICE MATERIAL

As produced, all Refractory Ceramic Fibres are vitreous (glassy) materials which, upon continued exposure to elevated temperatures (above 900°C), may devitrify. The occurrence and extent of crystalline phase formation is dependent on the duration and temperature of exposure, fibre chemistry and/or the presence of fluxing agents. The presence of crystalline phases can be confirmed only through laboratory analysis of the "hot-face" fibre.

IARCs evaluation of crystalline silica states "Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)" and additionally mentioned "in making the overall evaluation, the Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied..."

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.

The lack of toxicological effects may be explained by the following factors;

Increased brittleness of fibres after service life, favours fast fibre translocation through macrophage.

Microcrystals, including crystalline silica, are embedded in the glass structure of the fibre and are therefore not biologically available The IARC evaluation as provided in Monograph 68 is not relevant as CS is not biologically available in after- service RCF/ASW.

High concentrations of fibres and other dusts may be generated when after-service products are mechanically disturbed during operations such as wrecking. Therefore MTC 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.

16.2 - uses advised against

ECFIA recommends that this fibre is not used for spraying

16.3 - NOTE

This Safety Data Sheet was originally produced in English and has subsequently been translated in to other languages; whilst every effort has been made to make this an accurate translation, please be aware that technical terms do not always translate correctly. The English version should always be considered as the reference version.

16.4 - Further Information

FURTHER INFORMATION

Further information can be found on

http://www.morganthermalceramics.com

http://www.cdc.gov/niosh/docs/2006-123/

http://www.ecfia.eu/

http://echa.europa.eu/chem_data/authorisation_process/candidate_list_obligations_en.asp

16.5 - Technical Datasheets

TECHNICAL DATA SHEETS

For more information on individual products please see the technical data sheet section at www.morganthermalceramics.com

16.6 - Revision Summary

Content checked and revision date updated

16.7 - NOTICE

The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.