

SDS Number: SMG0004-EU

According to (EC) No 1907/2006 and (EC) No 1272/2008

Date of Issue: March 2020

Date of Last Revision: Feb 2021

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 PRODUCT IDENTIFIER: SuperPly Paper

This product contains Supermag Low Bio-persistence Fiber (Alkaline-earth silicate wools (AES wools)).

Index Number: 650-016-00-2 Annex VI

CAS Number: 436083-99-7

Registration Number: 01-2119457644-32-0003

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Application as thermal insulation, heat containment, heat shields, gaskets and expansion joints in industrial ovens, furnaces, kilns, boilers and other process equipment and in the aerospace, automotive and appliance industries, and as passive fire protection systems and firestops. (Please refer to Supermag Low Bio-persistence Fiber Products Data Sheet to more information).

1.3 MANUFACTURER/SUPPLIER: NUTEC EUROPE, S.A. DE C.V.

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Language: English

Opening hours: Only available during office hours

SECTION 2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE / MIXTURE

2.1.1. Classification according to regulation (EC) no 1272/2008

Not classified as hazardous according to Classification, Labelling and Packaging regulations (CLP) 1272/2008 EEC.

2.2 LABEL ELEMENTS

Not applicable

2.3 OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION:

Cutting through the material and surface scuffing may release small amounts of airborne fibre and amorphous silica dust, which are mechanically irritating to skin, eyes and upper respiratory system. These effects are usually temporary.

As with any dust, pre-existing upper respiratory and lung diseases may be aggravated..

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

COMPONENT	% by weight	CAS NUMBER	Index number in CLP Annex VI	REACH Registration Number	Hazard Classification according to CLP
AES wool (synthetic fibres, alkaline earth silicate)	60-98	436083-99-7*	650-016-00-2	01-2119457644-32-0003	Note Q exonerated
Acrylic binder	2-15	50-00-0	Not available	Not available	Not classified as hazardous

3.2 COMPOSITION ADDITIONAL INFORMATION

COMPOSITION:

* CAS definition: Alkaline earth silicate (AES) consisting of silica (50-82 wt. %), calcia and magnesia (18-43 wt. %), alumina, titania and zirconia (less than 6 wt. %), and trace oxides.

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

SECTION 4. FIRST AID MEASURES

4.1 Skin contact: Handling of this material may generate mild mechanical temporary skin irritation. If this occurs, rinse affected areas with water and wash gently. Do not rub or scratch exposed skin.

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

4.3 Nose and Throat contact: If these become irritated move to a dust free area, drink water and blow nose. If symptoms persist, seek medical advice.

SECTION 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,

5.3 ADVICE FOR FIREFIGHTERS

Packaging and surrounding materials may be combustible.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- Where abnormally high dust concentrations occur, provide the workers with appropriate protective equipment as detailed in section 8.
- 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.
- If brushing is used, ensure that the area is wetted down first.
- Do not use compressed air for clean up.
- Do not allow being windblown.

6.4 Reference to other sections

- For further information, please refer to sections 7 and 8

SECTION 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling can be a source of dust emission. The process or processes should be designed to limit the amount of handling. Wherever possible, handling should be carried out under ventilation with filtered exhaust. Regular good housekeeping will minimise secondary dust dispersal.

7.2 CONDITIONS FOR SAFE STORAGE

Store in original packaging in a dry area.
Always use sealed and clearly labelled containers.
Avoid damaging containers.
Reduce dust emission during unpacking.

7.3 SPECIFIC END USE

The main application of these products is as thermal insulation. Please refer to your local Nutec supplier.

SECTION 8. RISK MANAGEMENT MEASURES, EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 HYGIENE STANDARDS AND EXPOSURE LIMITS

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:

Country	MMVF	Source
Austria	1 f/ml	Grenzwerteverordnung
Belgium	10 mg/m ³	Valeurs limites d'exposition professionnelle – VLEP/ Grenswaarden voor beroepsmatige blootstelling – GWBB
Czech Republic	1 f/ml	
Denmark	1 f/ml	Grænseværdier for stoffer og materialer
Finland	1 f/ml	Finnish Ministry of Social Affairs and Health
France	1 f/ml	Institut National de Recherche et de Sécurité
Germany	1.25 mg/m ³	TRGS 900
Hungary	1 f/ml	EüM-SZCSM rendelet
Ireland	1 f/ml	HAS – Ireland
Italy	1 f/ml	Uses EU values
Luxembourg	1 f/ml	Netherlands 10 5 0.5 SER
Netherlands	1 f/ml	Agents Chimiques, Cancérogènes Ou Mutagènes Au Travail
Norway	0.5 f/ml	Veiledning om administrative normer for forurensning i arbeidsatmosfære
Poland	2 f/ml	Dziennik Ustaw 2010
Spain	1 f/ml	INSHT
Sweden	1 f/ml	AFS 2005:17
Switzerland	1 f/ml	SUVA - Valeurs limites d'exposition aux postes de travail
UK	2 f/ml	EH40/2005
GCC	1 f/ml	Abu Dhabi OSHAD
South Africa	5 mg/m ³	Regulation 1179 – Hazardous Chemical Substances 2007

Information on monitoring procedures

United Kingdom

MDHS 59 specific for MMVF: "Man-made mineral fibre - Airborne number concentration by phase-contrast light microscopy" and

MDHS 14/4 "General methods for sampling and gravimetric analysis of respirable and inhalable dust"

NIOSH

NIOSH 0500 "Particulates not otherwise regulate, total"
NIOSH 0600 "Particulates not otherwise regulate, respirable"
NIOSH 7400 "Asbestos and other fibres by PCM"

8.2 EXPOSURE CONTROLS

8.2.1 APPROPRIATE ENGINEERING CONTROLS

Review your applications in order to identify potential sources of dust exposure.

Local exhaust ventilation, which collects dust at source, can be used. For example down draft tables, emission controlling tools and materials handling equipment.

Keep the workplace clean. Use a vacuum cleaner fitted with a HEPA filter. Avoid brushing 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

8.2.2 PERSONAL PROTECTIVE EQUIPMENT

Skin protection: Wear gloves and work clothes, which are loose fitting at the neck and wrists. Soiled clothes should be cleaned to remove excess fibres before being taken off (e.g. use vacuum cleaning, not compressed air).

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 FFP2 respirators. In case of higher concentrations or where the concentration is not known, please seek advice from your company and/or local Nutec supplier.

Information and Training of Workers

Workers should be trained on good working practices and informed on applicable local regulations.

8.2.3 Environmental Exposure Controls

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	White fibre	PARTITION COEFFICIENT	Not applicable
BOILING POINT	Not applicable	ODOUR	None

FLASH POINT	Not applicable	FIBRE MELTING POINT	> 1200° C
AUTOFLAMMABILITY	None	FLAMMABILITY	Not applicable
OXIDISING PROPERTIES	None	EXPLOSIVE PROPERTIES	None
RELATIVE DENSITY	50-240 kg/m ³	VAPOUR PRESSURE	Not applicable
SOLUBILITY	Less than 1 mg/l	pH	Not applicable

OTHER SAFETY INFORMATION

These fibres are far denser than air or water and will settle rapidly under normal environmental conditions.

SECTION 10. STABILITY AND REACTIVITY**10.1 REACTIVITY**

AES is stable and non reactive

10.2 CHEMICAL STABILITY

AES 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.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 IRRITANT PROPERTIES**

Supermag fibres are negative when tested using approved methods (Directive 67/548/EEC, Annex 5, Method B4). Like all man-made mineral fibres and some natural fibres, fibres contained in this product can produce a mild mechanical irritation resulting in temporary itching or rarely, in some sensitive individuals, in a

slight temporary reddening. Unlike other irritant reactions this is not the result of allergy or chemical skin damage but is caused by mechanical effects.

11.2 OTHER ANIMAL STUDIES

These materials have been designed to allow rapid clearance from tissue. And this low biopersistence has been confirmed in many studies using EU protocol ECB/TM/27(rev 7) and the German method specified in TRGS 905 (1999). When inhaled, even at very high doses, they do not accumulate to any level capable of producing a serious adverse biological effect. In lifetime chronic studies there was no exposure-related effect more than would be seen with any "inert" dust. Subchronic studies at the highest doses achievable produced, at worst, a transient mild inflammatory response. Fibres with the same ability to persist in tissue do not produce tumours when injected into the peritoneal cavity of rats.

Irritant properties

Supermag fibres are negative when tested using approved methods (OECD TG 404). Like all man-made mineral fibres and some natural fibres, fibres contained in this product can produce a mild mechanical irritation resulting in temporary itching or rarely, in some sensitive individuals, in a slight temporary reddening. Unlike other irritant reactions this is not the result of allergy or chemical skin damage but is caused by mechanical effects.

SECTION 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 Other adverse effects

No additional information available

SECTION 13. DISPOSAL INFORMATION

13.1 WASTE TREATMENT METHODS

Waste from these materials may be generally disposed off at a landfill, which has been licensed for this purpose. Please refer to the European list (Decision N° 2000/532/CE as modified) to identify your appropriate waste number, and insure national and/or regional regulations are complied with.

Taking into account any possible contamination during use, expert guidance should be sought.

Unless wetted, such a waste is normally dusty and so should be properly sealed in containers for disposal. At some authorised disposal sites, dusty waste may be treated differently in order to ensure they are dealt with promptly to avoid them being windblown. Check for any national and/or regional regulations, which may apply.

13.2 Additional information

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.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous goods under relevant international transport regulations (ADR, RID, IATA, IMDG, ADN). Refer section 16 "Definitions".

Ensure that dust is not windblown during transportation.

Transport

14.1. UN number

Not Applicable

14.2. UN proper shipping name

Not Applicable

14.3. Transport hazard class(es)

Not Applicable

14.4. Packing group

Not Applicable

14.5. Environmental hazards

Not Applicable

14.6. Special precautions for user

Not Applicable

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

Not Applicable

SECTION 15. REGULATORY INFORMATION**15.1 Safety health and environment regulations/legislation specific for the substances or mixtures EU regulations:**

- Regulation (EC) No 1907/2006 dated 18th December 2006 on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Regulation (EC) No 1272/2008 dated 20th January 2009 on classification, labelling and packaging of substances and mixtures (OJ L 353)
- Annex of Regulation (EU) 2015/830
- Commission regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.
- The 1st Adaptation to Technical Progress (ATP) to Regulation (EC) No 1272/2008 enters into force on 25 September 2009.

PROTECTION OF WORKERS

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

- a) Council Directive 89/391/EEC dated 12 June 1989 "on the introduction of measures to encourage improvements in the safety and health of workers at work" (OJEC (Official Journal of the European Community) L 183 of 29 June 1989, p.1).
- b) Council Directive 98/24/EC dated 7 April 1998 "on the protection of workers from the risks related to chemical agents at work" (OJEC L 131 of 5 May 1998, p.11).

OTHER POSSIBLE 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 any national regulation.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for AES and CSR can be provided on request.

SECTION 16. OTHER INFORMATION**Useful references****Precautionary measures**

Information on after service heated fibres

In almost all applications high temperature insulating wools products (HTIW) are used as an insulating material helping keeping up temperature at 900°C or more in a closed space. As only a thin layer of the insulation hot face side is exposed to high temperature, respirable dust generated during removal operations does not contain detectable levels of crystalline silica.

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 HTIW material has not shown any increased toxicity in vitro. The results from different combinations of factors like increased brittleness of fibres, or micro crystals embedded in the glass structure of the fibre and therefore not biologically available may explain the lack of toxicological effects.

IARC evaluation as provided in Monograph 68 is not relevant as CS is not biologically available in after service HTIW and respirable dust generated during removal operations does not contain detectable levels of crystalline silica.
<http://www.iarc.fr/en/publications/pdfs-online/index.php>

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; and
- b) all personnel directly involved wear an appropriate respirator to minimise exposure and comply with local regulatory limits.

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 Waterways

CARE PROGRAMME (“Controlled and Reduced Exposure”)

The trade association representing the European high temperature insulation wool industry (ECFIA) has undertaken an extensive hygiene programme for High Temperature Insulation Wool (HTIW).

The objectives are twofold: (i) to monitor workplace dust concentrations at both manufacturers’ and customers’ premises, and (ii) to document manufacturing and use of HTIW products from an industrial hygiene perspective in order to establish appropriate recommendations to reduce exposures. The initial results of the programme have been published. If you wish to participate in the CARE programme, contact ECFIA or your Nutec supplier.

WEBSITES:

For more information, connect to:

The Nutec Europe website: (www.nutec.com)

Or ECFIA's website: (www.ecfia.eu)

Or Deutsche KeramikFaser-Gesellschaft e.V' website: (<http://www.dkfg.de/>)

Revision Summary

Website in the sections 1.3 was updated.

NOTICE:

The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet (SDS). However safe as provided by law, 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 authorisation given or implied to practice any patented invention without a licence. 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 (however, this shall not act to restrict the vendor's potential liability for negligence or under statute).