



SAFETY DATA SHEET

(EUROPEAN)

SDS NUMBER 3050E Revision 3 According to (EC)1907/2006 & (EC)1272/2008
DATE OF ISSUE 20th November 2006 DATE OF LAST REVISION :17th December 2014

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

IDENTIFICATION OF THE SUBSTANCE

TRADE NAMES: **Millboard120WT** DENOMINATION : Refractory Materials

IDENTIFICATION OF THE MANUFACTURER AND SALES CONTACTS

GERMANY Unifrax GmbH Kleinreinsdorf 62 Teichwolframsdorf 07989 Germany Tel: + 49 (0) 366-24-40020 Fax: + 49 (0) 366 24 400 99	UK Unifrax Limited Mill Lane, Rainford St Helens, Merseyside WA11 8LP Tel: + 44 (0) 1744 88 7600 Fax: + 44 (0) 1744 9916	FRANCE Unifrax France 17 Rue Antoine Durafour 42420 Lorette, France Tel.: +33(0)4-7773-7000 Fax.:+33(0)4-7773-3991
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SALES CONTACTS ONLY

SPAIN Unifrax Spain Cristobal Bordiu 20 Madrid 28003 Spain Tel: + 34 91 395 2279 Fax: + 34 91 395 2124	Germany Unifrax GmbH Kappeler Straße 105 40597 Düsseldorf Tel.: +49(0)211 87746 0 Fax.:+49(0)211 87746 115	ITALY Unifrax Italia Srl Via Volonterio 19 Saronno (Va) 21047 Italy Tel: + 39 02 967 01 808 Fax: + 39 02 962 5721
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Emergency contact number

Occupational Hygiene and CARE: Tel: + 44 (0) 1744 887603. Fax: + 44 (0) 1744 886173

E Mail: reachsds@unifrax.co.uk

Language: English

Opening hours: Only available during office hours



2. HAZARDS IDENTIFICATION

This product is not classified as hazardous for use under normal conditions.

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

3. COMPOSITION / INFORMATION OF INGREDIENTS

COMPONENT	CAS NUMBER	SYMBOL	R PHRASES
Aluminium silicate	1318-74-7	None	None
Calcium silicate	13983-17-0	None	None
Cellulose	9004-34-6	None	None

COMPOSITION

Millboards 120WT: 43-46% Calcium silicate, 40-45% Aluminium silicate, <10% cellulose

DESCRIPTION

Use of the product

Millboards are used as thermal insulation at temperature up to 1100°C, in industrial process equipment.

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.

EYES

In case of eye contact flush abundantly with water; have eye bath available. Do not rub eyes.

NOSE AND THROAT:

If these become irritated move to a dust free area, drink water and blow nose.

If symptoms persist, seek medical advice.

5. FIRE-FIGHTING MEASURES

Non combustible products. Packaging and surrounding materials may be combustible. Use extinguishing agent suitable for surrounding combustible materials.

6. ACCIDENTAL RELEASE MEASURES

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.
Prevent further dust dispersion for example by damping the materials.

METHODS FOR CLEANING UP

Pick up large pieces and use a vacuum cleaner fitted with high efficiency filter (HEPA)
If brushing is used, ensure that the area is wetted down first.
Do not use compressed air for clean-up.
Do not allow to be wind blown.
Do not flush spillage to drain and prevent from entering natural watercourses.
Check for local regulations, which may apply.

For wastes disposal refer to section 13

7. HANDLING AND STORAGE

HANDLING / TECHNIQUES TO REDUCE DUST EMISSIONS DURING HANDLING

HANDLING

Handling can be a source of dust emission.
The Process or processes should be designed to limit the amount of handling. Whenever possible, handling should be carried out under controlled conditions (i.e., use dust exhaust system).
Regular good housekeeping will minimise secondary dust dispersal.

STORAGE

Store in original packaging in dry area whilst awaiting use
Always use sealed and visibly labelled containers.
Avoid damaging containers.
Reduce dust emission during unpacking.
Emptied containers, which may contain debris, should be cleaned before disposal or recycling.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

HYGIENE STANDARDS AND CONTROL MEASURES

Hygiene standards and occupational exposure limits may vary between countries and local jurisdictions. Check which exposures apply to your facility. 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 are given below:

Exposure limit in January 2010 as given below:
United Kingdom – Workplace Exposure Limits – HSE EH 40

	Total inhalable dust mg/m ³	Respirable dust mg/m ³
Calcium Silicate	10	4
Aluminium Silicate	10	4

Germany – TRGS 900



Calcium Silicate	10	3
Aluminium silicate	10	3

ENGINEERING CONTROLS

Review your application(s) 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 material handling equipment.

Keep the workplace clean. Use a vacuum cleaner fitted with an HEPA filter; avoid brushing and using compressed air.

PERSONAL PROTECTIVE EQUIPMENTS

SKIN PROTECTION

Wear gloves and suitable work wear or overalls, Contaminated clothes should be cleaned to remove excess dust before being taken off (e.g. use vacuum cleaner, not compressed air)..

EYE PROTECTION

As necessary wear goggles or safety glass 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 your supplier.

INFORMATION AND TRAINING OF WORKERS

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

ENVIRONMENTAL EXPOSURE CONTROLS

Refer to local, national or European applicable environmental permitted standards for release to air, water and soil.

For waste, refer to section13

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	Melting point	>1300°C
Flammability	None		
Appearance	Beige-brown	Explosive properties	None
Oxidising properties	None	Odour	None
pH	8-10		



10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID

N.A.

MATERIALS TO AVOID

N.A.

DECOMPOSITION PRODUCTS

Thermal decomposition of the organic binder above 150°C.

11. TOXICOLOGICAL INFORMATION

RESPIRATORY EFFECTS

None expected in the normal use of the product.

Crystalline silica may be present, which has been classified by IARC (International Association for Research on Carcinogens) as a Category 1 carcinogen. However this would contain <0.1% as supplied therefore the product is not classified as hazardous.

Wollastonite is classed under IARC as group 3- there is inadequate evidence for carcinogenicity in humans.

12. ECOLOGICAL INFORMATION

These products are inert materials, which remain stable overtime.

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

13. DISPOSAL CONSIDERATIONS

Waste from these products are classed as non hazardous and may generally be disposed of at landfill, which has been licensed for this purpose. Please refer to the European list (Decision no 2000/532/CE as modified) to identify your appropriate waste number, and insure national and or regional regulation are complied with. Taking into account any possible contamination during use, expert guidance should be sought.

14. TRANSPORT INFORMATION

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

Ensure that dust is not wind blown during transportation.

15. REGULATORY INFORMATION

Not Classed as Hazardous

This applies for sales in the European Union



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 1997 “ on the protection of workers from the risks related to chemical agents at work” (OJEC L 131 of 5 May 1998,p.11).

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.

16. OTHER INFORMATION

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

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 L 183 of 29 June 1989,p.1)

Commission Directive 97/69/EC of 5 December 1997 “adapting to technical progress for the 23rd time Council Directive 67/548/EEC ,(OJEC L 343 *Official Journal of the European Communities*, 13/12/97 , p.19).

Council Directive 98/24/EC of 7th April 1998 “on the protection of the health and safety of workers from risks related to chemical agents at work” (OJEC L131 of 5th May 1998, P.11)

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

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
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www.ecfia.eu



NOTICE:

The information presented herein is presented in good faith and believed to be accurate as of the effective date of this Safety Data Sheet. Employers may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of their employees and the proper use of the product. This summary of the relevant data reflects professional judgment; employers should note that information perceived to be less relevant has not been included in this SDS. Therefore, given the summary nature of this document, Unifrax I LLC does not extend any warranty (expressed or implied), assume any responsibility, or make any representation regarding the completeness of this information or its suitability for the purposes envisioned by the user.