

**SAFETY DATA SHEET**

CE: 91/155 – 93/112 (DM 04/04/97)

MICROBIFIRE[®] HT 1100-1000Released
01/05/2006Updated
01/05/2006**1. COMPANY'S PRODUCT IDENTIFICATION**

- 1.1 PRODUCT IDENTIFICATION:
Trade Name : MICROBIFIRE[®] HT 1100 - 1000
- 1.2 COMPANY IDENTIFICATION:
Producer/Supplier: BIFIRE[®] Srl
Via E. Fermi , 10
20054 Nova Milanese (MI)
Tel. +39 0362364570
Fax. +39 0362334134
+39 0362364570
- Emergency phone number :

2. COMPOSITION / INFORMATION ABOUT THE INGREDIENTS

- 2.1 COMPONENTS: SiO₂ mixture (amorphous), "IR opaque" materials and reinforcing fibers
- 2.2 CAS NUMBER: N.A.
- 2.3 DESCRIPTION: microporous boards.

3. HAZARDS INFORMATION

- 3.1 MAIN HAZARDS FOR HEALTH: Depending on the proportion length-diameter, the fibre can not penetrate into the lungs (extracted continuous filament with diameter > 3 micron).
- 3.2 MAIN RISKS FOR ENVIRONMENT : N.A.



4. FIRST AID MEASURES

- 4.1 GENERAL INDICATIONS:
having When in doubt or when symptoms still endure, refer to a doctor ready the Safety Data Sheet of the product. Do not administer any medicament in oral way to unconscious person.
- 4.2 CONTACT WITH EYES: Immediately wash with abundant water. If the cutaneous irritation still endures, refer to a doctor.
- 4.3 INHALING: Bring the person outdoor.
- 4.4 CUTANEOUS CONTACT: Wash with abundant water, even if soap mixed.
- 4.5 INGESTION: Cleaning of the oral cavity. Drink abundant water. In case of illness refer to a doctor (show the label if possible).
- 4.6 INSTRUMENTS OF SPECIFIC AND IMMEDIATE TREATMENT TO HOLD AT THE WORK PLACE:
N.A.

5. FIRE PREVENTION MEASURES

- 5.1 RECOMMENDED FIRE FIGHTING MEASURES : The substance in itself is not inflammable. Tune the fire fighting measures depending on the fire risk of the surrounding area. Fire protection class A1.
- 5.2 FIRE EXTINGUISHING MEASURES NOT ALLOWED FOR SECURITY REASONS: No one known at the present time.
- 5.3 RISKS FOR THE FIRE EXTINGUISHING OPERATORS AND INDIVIDUAL PROTECTION EQUIPMENT:
N.A.

6. MEASURES IN CASE OF ACCIDENTAL OUTFLOW

- 6.1 FIRST MEASURES AND INDIVIDUAL PRECAUTIONS: Avoid the producing of dust. Do not breathe in the powder.
- 6.2 ENVIRONMENTAL PRECAUTIONS: Specific measures are not required.
- 6.3 CLEANING AND RECYCLING SYSTEMS:
with Picking up mechanically and disposing off in accordance the rules in force.

7. HANDLING AND WAREHOUSING

- 7.1 PRECAUTIONS FOR HANDLING: Avoid the producing of powder. On the contrary the vacuum-cleaning of the object will be necessary. Specific protection measures for fire and explosions are not necessary.
- 7.2 WAREHOUSING CONDITIONS: Storage rooms dry and sheltered as much as possible. Protect against humidity.



8. EXPOSURE CONTROL/INDIVIDUAL PROTECTION

8.1 PROFESSIONAL EXPOSURE LIMITS:

<u>Denomination</u>	<u>Limit value</u>	<u>Limit Type</u>
Artificial mineral fibres	500.000 fibres/m ³	TRK = Technically correct concentration
General limit of powder	6 mg/m ³	MAK = Maximal concentration allowed at the work place

8.2 MEDICAL: N.A.

8.3 EQUIPMENT ABLE TO PROVIDE AN APPROPRIATE INDIVIDUAL PROTECTION:

Breathing protection:	In case of powder's formation, use a powder's mask type P2.
Hand's protection:	In case of strong or long exposure, protective rubber-gloves are recommended.
Eyes protection:	In case of strong or long exposure, protective glasses are recommended.
Skin protection:	Provide for an appropriate sanitation and care of the skin after work.

8.4 SPECIFIC HYGIENE MEASURES:

Do not breathe in the powder. Clean the hands after work and before eating. Do not eat and drink during the work. Periodically clean the work place, keep separated the work wear from the personal wear, work in a as clean as possible way and care about improving the personal hygiene.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Aspect:	- physical status at 20°C solid
	- colour White or grey
Odour:	odourless
Ph watery solution:	4,2 – 4,3 at 25°C (40 g/l H ₂ O)
Boiling point:	N.A.
Melting point:	> 1250°C
Ignition point:	N.A.
Powders ignition:	N.A.
Auto-ignition:	N.A.
Explosive characteristics:	N.A.
Combustive characteristics:	N.A.
Vapor pressure:	N.A.
Apparent density:	260 – 350 kg/m ³
Solubility:	- hydro-solubility insoluble
	- liposolubility insoluble
Miscibility with other solvents:	N.A.

10. STABILITY AND REACTIVITY

No dangerous reaction are known if stored and handled as prescribed.

10.1 AVOIDABLE CONDITIONS: N.A.

10.2 AVOIDABLE SUBSTANCES: N.A.



10.3 DANGEROUS DECOMPOSITION PRODUCTS: N.A.

11. TOXICOLOGICAL INFORMATIONS

11.1 INFORMATIONS ABOUT THE DIFFERENT WAYS OF EXPOSURE (experimental data):

At the state of our present knowledge, no more data are known and no damages are predictable if handled as prescribed. The toxicological results listed below have been obtained by tests on similar products.

The relevant values LD/LC50 for the classification are:

- inhaling exposure
- values > 0,8 mg/l during 4 hours (aerosol/powder)
- used species rat (limit test)
- analysis report source

At the maximal concentration technically obtainable, no mortal cases have been recorded during the laboratory experiments on animals.

11.2 INHALING:

Breathing apparatus disease.

11.3 INGESTION:

N.A.

11.4 SKIN OR EYES CONTACT:

Irritation.

11.5 DELAYED POSSIBLE EFFECTS:

N.D.

12. ECOLOGICAL INFORMATIONS

Use it following the good working practices and avoiding to disperse the product into the environment (Min. San. – Circolare 01/04/1992, N° 15).

12.1 WATER TOXICITY AND OTHER DATA OF ECO-TOXICITY:

Negatives effects on the water organisms are not foreseen.

At the present state of experiences, negatives effects on depuration systems and detrimental effects for the environment are not foreseen .
Good separation from water by filtration.

12.2 OTHERS:

The product do not produce oxygen consumption.

13. DISPOSAL OBSERVATIONS

Specially process it in accordance with the local dispositions, for example, depositing in appropriate warehousing centre. The packaging have to be possibly reused in respect of local and/or national dispositions in force. Suggested cleaning agent water.

National dispositions : D. L.vo 05/02/1997, N° 22 and subsequent updates.

14. TRANSPORT INFORMATIONS

14.1 CLASSIFICATION N° ONU:

N.A.

14.2 TECHNICAL CORRECT NAME:

Oxides of fused silica.

14.3 PACKAGING GROUP:

Product not classed for transportation

**15 REGULATORY INFORMATION**

15.1 Information on label:

Name of product:	NA
Name of dealer:	NA
Chemical name:	NA
R/S/and danger:	NA
Other info:	NA

15.2 Other national regulation: NA. In case in accordance with Italian DL 626/94.

16 OTHER INFORMTION

People handling this product has to be informed on the risk of this product and on how to handle it.

These information are based on European regulation and on our knowledge, This product has not to be used for any other purpose not included in our technical data sheet. The user has to take all measures to follow local and national regulations.

N.A.= not applicable