

SAFETY DATA SHEET

In accordance with 2001/58/CE

Date of publication: 19/01/98

Date of revision: 17/12/08

NAME OF THE PRODUCT: **BRIOREF PRIMAZIR**

1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

NAME OF THE PRODUCT: **BRIOREF PRIMAZIR**

Typical uses Refractories, ceramics, foundry, zirconium compounds, etc
Supplier : **CMMP
COMPTOIR DE MINERAUX ET MATIERES PREMIERES
45 RUE DE ST PETERSBOURG
75008 PARIS**
Telephone number : + 33 1 43 87 45 75
Fax : + 33 1 42 94 96 32

2 – COMPOSITION / INFORMATION ON INGREDIENTS

Common Chemical Name : Zircon sand and flour, zirconium silicate

Composition:	Name of the ingredient	CAS-N°	EINECS-NO	Concentration
	Zircon	14940-68-2	239-019-6	> 98%
	Quartz(SiO ₂)	14808-60-7	238-878-4	0,1 to 0,5 %

Significant trace elements contained in the crystal structure of zircon ore:	Uranium	286-343 ppm
	Thorium	116-157 ppm
	Radium 236	3.5 - 4.3 Bq/g
	Radium 238	0.5 - 0.6 Bq/g

3 – HAZARDS IDENTIFICATION

Most important hazards: Intensive dust prolonged inhalation may cause a respiratory irritation.

Specific hazards : Exposure to mild concentrations of dust containing quartz do not present significant toxic effects, as long as the threshold limit values are not exceeded :

Environmental hazards : None.

4- FIRST AID MEASURES

- Inhalation : If there is an irritation, consult a doctor
- Skin Contact : Wash with water and soap
- Eye Contact : Take off any contact lenses
Wash the eyes with clear water – if the irritation develops, seek medical attention
- Ingestion: No specific intervention is indicated
Should any discomfort be experienced, a doctor should be consulted.

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5 – FIRE-FIGHTING MEASURES

Product non-flammable and none explosive.

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions : Using dust mask prevents breathing of dust.
Environment precautions: Use methods of recycling which avoid dust generation.
Methods for cleaning up: In case of dispersion, use a vacuum cleaner.

7 - HANDLING AND STORAGE

Handling : Dust levels must not exceed prescribed limits
Storage : The product should be stored in a ventilated place.
Keep the packaging well closed to avoid any dispersion.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures : Dust exposure do not exceed the threshold limit value during the milling of zircon and during the maintenance operations.
Exposure limit values : **Threshold Limit Values (TLV):**
(concentration of inhalable dust to which a worker is exposed during a working day of 8 hours).
- Concentration of total breathable dust : **TLV = 10 mg / m³**
Personal protection : Wear a dust mask under a high level of dust concentration.
Wear gloves.
Wear safety goggles.
Wear appropriate clothing.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Solid
Form : Powder and Sand
Colour : Grey
Odour : Odourless
pH : 6.5
Melting Point : 2250 °C
Flash Point : Not applicable
Explosion Properties : Non explosive
Specific density : 4.6 g/cm³
Bulk density : 2700 kg/m³
Water solubility : Insoluble

10 – STABILITY AND REACTIVITY

Stability : Stable under normal conditions.
Hazardous decomposition products : None.

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11 – TOXICOLOGICAL INFORMATION

A prolonged and repeated inhalation of an excessive concentration of dust may cause a lung cancer and various respiratory irritations.

12 – ECOLOGICAL INFORMATION

Stable product - non biodegradable.

13 – DISPOSAL CONSIDERATIONS

Waste disposal method :

Contaminated packaging :

By disposed of at landfill site.

14 – TRANSPORT INFORMATION :

Risk code and transport class: No transport regulations are applicable.

Land transportation : N.A.

Sea transportation : N.A.

N° UN :

15 – REGULATORY INFORMATION

No community regulations.

16 – OTHER INFORMATION None

The information and recommendation contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.