

To: Kum

ZIRBLAST**SEPR****SAFETY DATA SHEET n° : DS MS BE 11 GB**

(in accordance with 91/155/EEC, amended by 93/112/EC)

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Commercial name : ZIRBLAST
Description : Ceramic beads (zirconia, silica) for shot peening.

Emergency tel : 33 (0) 4 90 32 70 78

Société Européenne des Produits Réfractaires (SEPR)
 Les Miroirs, 18 rue Alsace
 LA DEFENSE - 92400 COURBEVOIE
 FRANCE

Tel : 33 (0) 1 47 62 37 00 **Fax :** (33 (0) 1 47 62 46 46

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NR	Component	Weight %
1314-23-4	ZrO ₂	60 to 70
7631-86-9	SiO ₂ (1)	28 to 33
1344-28-1	Al ₂ O ₃	< 10

(1) silica glass containing also Al₂O₃**3. HAZARDS IDENTIFICATION**

Possible irritation through abrasive friction.
 Risk of slipping if the product (beads) is spread out on the floor.
 As such, the product should not cause an inhalation problem.

4. FIRST AID MEASURES

Eyes : may be abrasive through friction, treat as particle in eye.

5. FIRE FIGHTING MEASURES

This product is not combustible or explosive. It is compatible with all standard fire-fighting methods.

6. ACCIDENTAL RELEASE MEASURES

Isolate the area and clean up the floor in order to collect the beads to avoid slipping by rolling of beads.

7. HANDLING AND STORAGE

Heavy material, respect the security rules in case of stacking.
 Use safety shoes for handling.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

General protection : provide for ventilation, checkup the ventilation of equipments.
Individual protection : use protective mask, use industrial gloves, recommended use safety glasses.
 Recommended dust concentration limits (coming from product) in air for 8 working hours per day = 2.5 mg/m³

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9 . PHYSICAL AND CHEMICAL PROPERTIES	<u>Aspect</u> : Beads of < 1.2mm diameter, of white colour. <u>Melting interval</u> : between 2120 and 2820°K. <u>Bulk density</u> : 2.3kg/dm ³ <u>Water soluble</u> : nil at ambient temperature
10 . STABILITY AND REACTIVITY	Stable in temperature up to 1570°K. Chemically stabilized product and no dangerous reaction.
11 . TOXICOLOGICAL INFORMATION	<u>Inhalation limits of zirconium compounds</u> : - 5 mg/m ³ of Zr for 8 hours ACGIH, MAK and OSHA (TWA) - 10mg/m ³ of Zr for 15 mn ACGIH, OSHA (STEL) <u>Limits of amorphous silica</u> : - 4 mg/m ³ , MAK - 6mg/m ³ OSHA - 10mg/m ³ ACGIH for 8 hours (TWA) <u>Inhalation limits of Al₂O₃</u> : - 5mg/m ³ , OSHA - 10mg/m ³ , ACGIH - 6mg/m ³ alveolate, MAK for 8 hours (TWA) - 10mg/m ³ France for 8 hours (VME)
2 . ECOLOGICAL INFORMATION	No data available.
13 . DISPOSAL CONSIDERATIONS	Please consult national laws or local regulations in force for landfill.
14 . TRANSPORT INFORMATION	No special precautions are required.
15 . REGULATORY INFORMATION	No risk phrase R.
16 . OTHER INFORMATION	The product contains traces of naturally occurring radioactive species (uranium, thorium). Total activity < 100 kBq/kg (declaration limit in accordance with EURATOM 80/836 instructions).

DATE: 15 janvier 1998

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