

**Next Advance Inc.**  
 1548 Burden Lake Road  
 Averill Park, NY 12018, USA  
 (518) 674 - 3510

**MSDS: 0.15 mm Zirconium Oxide Beads (ZrOB015)**  
**(69% ZrO/31% SiO<sub>2</sub>; Specific Gravity 3.8)**

**ER 120**

**SAFETY DATA SHEET n° : DS MS BC 11 GB**

(in accordance with directive 2001/58/CE)

**1 . IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY**

**Commercial name :** ER 120  
**Description :** Ceramic beads (zirconia, silica)..  
 used as grinding media.

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

**Société Européenne des Produits Réfractaires S.E.P.R.**  
**B.P. 40 – 84131 LE PONTET Cedex France**

**Tel. : +33 (0)4 90 32 70 00 – Fax :+33(0)4 90 32 71 65**

**2 . COMPOSITION/INFORMATION ON INGREDIENTS**

CAS NR	Component	Weight %
1314-23-4	ZrO <sub>2</sub>	66 to 70
7631-86-9	SiO <sub>2</sub> (1)	29 to 33
	*Other	

(1) Silica glass, free from crystalline forms of silica.

\*Other: Traces of radioactive components with natural origin (U + Th < 0.05 %)

**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, but its utilization can create dust.

**4 . FIRST AID MEASURES**

Eyes: may be abrasive through friction, treat as particle in eye, and rinse abundantly with water.

**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 sweep the floor in order to collect the beads to avoid slipping by rolling.

**7 . HANDLING AND STORAGE**

In case of operations which generate dust, wear dust mask, type FFP2 or FFP3 in accordance with NF EN 149.  
 Wear eye protectors.  
 Heavy material, respect the security rules in case of stacking.  
 Use safety shoes for handling.

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<p><b>8 . EXPOSURE CONTROL / PERSONAL PROTECTION</b></p>	<p><u>General protection</u> : provide for ventilation of the premises  <u>Hand protection</u>: use industrial gloves.  <u>Eye protection</u>: use safety glasses.  <u>Respiratory protection</u> :        . Room ventilation and/or wear dust mask.        . Inhalation limits of zirconium compounds :        - 5 mg/m<sup>3</sup> of Zr for 8 hours ACGIH, MAK and OSHA (TWA)        - 10 mg/m<sup>3</sup> of Zr for 15 mn ACGIH, OSHA (STEL)        . Inhalation limits of amorphous silica        - 4 mg/m<sup>3</sup>, MAK – 6 mg/m<sup>3</sup> OSHA – 10 mg/m<sup>3</sup> ACGIH for 8 hours (TWA)        . Under normal conditions of use, the working up of the product does not yield exposure above 1mSv/year (public limits in accordance with Euratom 96/29 directives).</p>
<p><b>9 . PHYSICAL AND CHEMICAL PROPERTIES</b></p>	<p>Aspect : Bead of &lt; 4mm diameter, of white color.        Melting point : between 2120 and 2820°K.        Bulk density : 2.3 kg/dm<sup>3</sup>        Water soluble : nil at ambient temperature</p>
<p><b>10 . STABILITY AND REACTIVITY</b></p>	<p>Stable at ambient temperature and below 1570°K        Reacts with hydrofluoric acid.</p>
<p><b>11 . TOXICOLOGICAL INFORMATION</b></p>	<p>No toxicological information known.</p>
<p><b>12 . ECOLOGICAL INFORMATION</b></p>	<p>No data available.</p>
<p><b>13 . DISPOSAL CONSIDERATIONS</b></p>	<p>Please consult national laws or local regulations in force for landfill.</p>
<p><b>14 . TRANSPORT INFORMATION</b></p>	<p>No special precautions are required.</p>
<p><b>15 . REGULATORY INFORMATION</b></p>	<p>No risk phrase R.</p>
<p><b>16 . OTHER INFORMATION</b></p>	<p>No other information.</p>