1. PRODUCT AND COMPANY IDENTIFICATION

Commercial name : INSEPLAST - 90 PF
Description : Plastic refractory mass
Manufacturer : INGENIERÍA Y SERVICIOS TÉCNICOS, S.A.
H.Q. Address : Avda. Cervantes, nº 6
48970 BASAURI – BIZKAIA (SPAIN)
H.Q. Phone : + 34 944 409 420
H.Q. Fax : + 34 944 496 624
Supplier : INGENIERÍA Y SERVICIOS TÉCNICOS, S.A. (Refractory Products Division)
Contact :
Refractory Products Division Phone : + 34 944 409 450
Refractory Products Division Fax : + 34 944 497 201
Refractory Products Division Mail : insertec@insertec.biz

2. INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>CAS No.</th>
<th>RANGE %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium silicate</td>
<td>1302-76-7</td>
<td>&lt; 20 %</td>
</tr>
<tr>
<td>Aluminium oxide</td>
<td>1344-28-1</td>
<td>60 – 90 %</td>
</tr>
<tr>
<td>Monoaluminium phosphate</td>
<td>13530-50-2</td>
<td>&lt; 20 %</td>
</tr>
<tr>
<td>Others</td>
<td>-</td>
<td>&lt; 1 %</td>
</tr>
</tbody>
</table>

Crystalline silica may be present (> 1.0 %), due to the fluctuations in the composition of the raw materials.

3. HAZARD IDENTIFICATION

These products might sometimes contain small amounts of crystalline silica. Long-term exposure to crystalline silica may affect the lungs (fibrosis). At temperatures above 1,000 ºC amorphous silica can transform itself into the harmful crystalline silica.

4. FIRST AID MEASURES

SYMPTOMS OF LONG-TERM EXPOSURE
- Inhalation : Irritation and dryness of throat and nose.
- Skin Contact : Temporal irritation or exanthemas.
- Eye Contact : Temporal irritation or inflammation.
- Ingestion : It may cause gastrointestinal problems.

FIRST AID
- Inhalation : Supply fresh air, drink water and blow the nose to expel the dust.
- Skin : Wash with soap and water. Seek medical attention if irritation persists.
- Eye : Rinse thoroughly with water. If eye irritation persists, consult a doctor.
- Ingestion : Drink water. Seek immediately medical attention.

In any case, if the symptoms persist, seek medical attention.

5. FIRE-FIGHTING
This product is not combustible, not explosive and not flammable. It is compatible with all standard fire-fighting methods. Select the fire-fighting method according to the surrounding flammable materials.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection : Prevent dust formation. Wear suitable clothes.
Environmental Protection : Do not flush spillage to drain and prevent from entering natural water courses. Prevent contact with soil.
Cleaning Measures : Remove spilt material with brush and shovel, and use a vacuum cleaner.

7. HANDLING AND STORAGE

HANDLING
Reduce dust emissions. Engineering measures, such as local dust extraction, to ensure compliance with Occupational Exposure Limits.

STORAGE
Store in a dry and fresh place. The product is packed in plastic drums. Avoid storage in bulk.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE CONTROL
Customers are advised to check National legislation for their period of reference for limit values.

<table>
<thead>
<tr>
<th>COMPOUND</th>
<th>EXPOSURE LEVEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breathable harmful dust</td>
<td>3 mg/m³, 8 hour</td>
</tr>
<tr>
<td>Inhalable harmful dust</td>
<td>10 mg/m³, 8 hour</td>
</tr>
<tr>
<td>Quartz</td>
<td>0.1 mg/m³, 8 hour</td>
</tr>
<tr>
<td>Cristobalite</td>
<td>0.05 mg/m³, 8 hour</td>
</tr>
</tbody>
</table>

PERSONAL PROTECTION
Ventilation : Maintain good ventilation during installation, placement, operation and wrecking of the refractory lining.
Respiratory : Wear suitable dust masks.
Hand : Suitable gloves are recommended.
Body and Skin : Wear suitable footwear and overalls.
Eye : Wear eye protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Granular plastic mass.
Colour : Gray.
Odour : None.
Boiling point : Not applicable.
Melting point : > 1700 ºC
Ignition point : Undetermined.
Explosion risk : The product is not explosive
Bulk Density : 2800 Kg/m³.
Solubility in Water : Not soluble.
PH : Slightly acid.
10. ESTABILITY AND REACTIVITY

Materials to avoid: None.
Dangerous reactions: Heating at temperatures above 1,000 ºC may produce crystalline silica. The mixture with other additives may alter its toxicological properties.
Dangerous decomposition products: Formation of crystalline silica during heating.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not applicable.
On the skin: It may cause irritations.
On the eye: It may cause irritations.
Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us. The product is not subject to labelling regulations according to EU guidelines.
However, the products manufactured with aluminium silicates may contain crystalline silica. In animals exposed to crystalline silica, both artificially or by inhalation, fibrosis and tumours were observed. There are only limited indications regarding the carcinogenic effect of silica in human beings.

12. ECOLOGICAL INFORMATION

Carry out a leaching test to determine values according to local legislation.

13. DISPOSAL CONSIDERATIONS

PRODUCT
Unused product can be disposed of. There is no degradation of the product in the form supplied...
Please consult local regulations before disposal.

PACKAGING
Packaging must be disposed of according to official regulations.

14. TRANSPORT INFORMATION

No special precautions are required.

15. REGULATORY INFORMATION

Labelling according to EU guidelines: It does not require a hazard warning label.

16. OTHER INFORMATION

This Material Safety Data Sheet (MSDS) has been prepared in strict observance of the EC Directive 93/112/EEC.
Other information sources: ISO/DIS 11014 "Safety data sheet for chemical products."
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