# MATERIAL SAFETY DATA SHEET

## PRODUCT
**FERROPASS ZB 91**

## 1. INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENTS | Chromic acid |

## 2. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PHYSICAL STATE</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOUR</td>
<td>Dark brown</td>
</tr>
<tr>
<td>DENSITY</td>
<td>46 - 47 ° Be</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>Soluble</td>
</tr>
<tr>
<td>ODOUR</td>
<td>-</td>
</tr>
<tr>
<td>OTHER</td>
<td>-</td>
</tr>
</tbody>
</table>

## 3. HEALTH HAZARD IDENTIFICATION ACUTE TOXICITY

1. **INHALATION**: Mist can damage upper respiratory tract. Prolonged or repeated exposure may cause ulceration and perforation of septum.

2. **INGESTION**: Can cause severe burns to mouth, throat and may be fatal.

3. **SKIN**: Severe burns

4. **EYES**: Severe burns leading to blindness or permanent injury.

5. **CHRONIC EXPOSURE**: Can cause sensitization of skin, ulceration of respiratory tract, and possible lung cancer.

6. **CARCINOGEN REFERENCE**: Cr (VI): Human Positive IARC 23,205,80

## 4. EMERGENCY AND FIRST AID MEASURES

1. **INHALATION**: Remove victim to fresh air. If breathing has stopped, administer artificial respiration. Administer oxygen if available, seek medical attention.

2. **INGESTION**: Never give anything by mouth to an unconscious person. Seek medical attention.

3. **EYES**: Wash with plenty of water, holding eye lids apart to ensure flushing of entire eye surface.

4. **SKIN**: Wash with plenty of water, if irritation or burn develops, seek medical attention.
5. FIRE FIGHTING MEASURES

1. FLASH POINT C  
   Not applicable

2. EXTINGUISING MEDIA  
   Not Combustible

3. SPECIAL FIRE FIGHTING PROCEDURES  
   Use full protective clothing and self contained breathing apparatus.

4. UNUSUAL FIRE AND EXPLOSION HAZARD  
   Can react with alkalis & generate heat.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with skin, eyes & clothing. Flush spill area with water. Neutralize & take up neutralized material and treat for removal of chromium & dispose of in accordance with state & local regulations.

7. HANDLING AND STORAGE

   HANDLING  
   Use only in well ventilated areas. Containers will contain hazardous residues Dispose off in accordance with state and local regulations

   STORAGE  
   Store in cool & dry place under closed condition to avoid any contaminations. Loosen cover cautiously when opening. keep container closed when not in use. Keep only in original containers Keep away from alkalis and organic chemicals.

8. PERSONAL PROTECTIVE EQUIPMENT

1. VENTILATION  
   Local exhaust or general ventilation.

2. RESPIRATOR  
   Use approved respirator.

3. EYE PROTECTION  
   Chemical safety goggles or face shields

4. GLOVES  
   Neoprene

5. OTHER PROTECTIVE CLOTHINGS  
   Chemical resistant clothing’s and boots

7. GENERAL SAFETY AND HYGIENE MEASURES  
   Handle in accordance with good industrial hygiene and safety practice Safety showers and eye wash stations should be provided in areas where this product is used wash with soap and water after use.

9. STABILITY AND REACTIVITY DATA

1. STABILITY  
   Stable

2. CONDITIONS TO AVOID  
   Not applicable
3 INCOMPATABILITY (Material to avoid) Highly alkaline materials

4 HAZARDOUS DECOMPOSITION -

5 HAZARDOUS POLYMERIZATION Will not occur.

DISCLAIMERS

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