Material Safety Data Sheet

1. Product Identification
Product Name: Hemocor C (Haemoglobin Reagent Concentrated) (Cyanmethaemoglobin Method)
Catalog Number: HO1012

2. Composition / Information on Hazardous Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>% W/V</th>
<th>Exposure Limits in Air</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>TLV</td>
<td>STEL</td>
<td>PEL</td>
<td>STEL</td>
</tr>
<tr>
<td>Potassium Cyanide</td>
<td>151-50-8</td>
<td>&lt;0.1%</td>
<td>N/A</td>
<td>N/A</td>
<td>5 mg/m³</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Reagent 2: N/A

Reagent 3: N/A

Reagent 4: N/A

Reagent 5: N/A

3. Hazard Identification
Primary Routes of Entry:
Inhalation, ingestion, skin and / or eye contact.

Inhalation:
Inhalation of Vapours, mists, or sprays irritate the nose and throat.

Ingestion:
Though not a likely route of occupational exposure, ingestion of this product, May cause vomiting and increase respiratory rate and asphyxia.

Skin Contact:
If the liquid or Vapours of this product come in contact with the skin can cause weakness, headache, confusion or nausea.
Eye Contact:
If the liquid or Vapours of this product come in contact with the eyes can cause slow gasping, thyroid and blood changes.

Chronic Exposure:
Exposure to this product can cause weakness in the body.

Medical Conditions Aggravated by Exposure:
Persons with pre – existing skin disorders and eye problem or impaired respiratory function may be more susceptible to the effects of the substance.

Health Effects:
Ingestion of this product can cause headache, vomiting, increase respiratory rate and causes immediate death in case of its concentrated form.

4. First Aid Measures
Inhalation:
If breathing becomes difficult, remove victim to fresh air. Seek medical attention immediately.

Ingestion:
Get medical attention immediately if there has been ingestion of this product.

Skin Contact:
Avoid skin contact. If skin contact occurs, remove contaminated clothing and wash exposed skin with water and soap. Get medical attention immediately.

Eye Contact:
Immediately flush eye(s) with large volume of water for atleast 15 minutes, occasionally lifting the lower lids. Get medical attention immediately.

5. Fire Fighting Measures
Flash Point (Method used): N/A  Flammable Limits – LEL: N/A  UEL: N/A

Extinguishing Media:
Use fire-extinguishing media appropriate for site conditions.

Special Fire Procedures:
Do not allow cyanide solutions to drain into sewers or drains.

Unusual Fire and Explosion Hazards:
N/A.

6. Accidental Release Measures
Steps to be taken in case material is Released or Spilled:
PPE should be level D: lab gloves, chemical resistant apron, boots and splash goggles. Use an absorbent material to contain / pick up the spilled solution. Place all spill residue into a suitable container, seal, label and hold for disposal.

7. Handling and Storage
Refer to packet insert for additional information on handling and storage procedures.

8. Exposure Controls and Personal Protection
Ventilation Data:
A system of local and / or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

Respiratory Protection:
Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow OSHA respirator regulations (29CFR1910.134) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide worker protection for given working conditions, level of airborne concentration, and presence of sufficient oxygen.
Protective Gloves:
Wear appropriate protective gloves to prevent skin contact.

Other Protective Equipment:
Wear appropriate eye protection to prevent eye contact. Wear appropriate body protection to prevent skin contact.

Other Engineering Controls:
Eye wash stations and deluge showers.

Work Practices:
Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Avoid contact with eyes or skin. Do not place in mouth.

Hygienic Practices:
Do not eat, drink, or smoke while working with product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

9. Physical And Chemical Properties
For All Components Unless Otherwise Indicated

<table>
<thead>
<tr>
<th>Property</th>
<th>Reagent 1</th>
<th>Reagent 2</th>
<th>Reagent 3</th>
<th>Reagent 4</th>
<th>Reagent 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Vapour density (air = 1)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity (water = 1)</td>
<td>1.85</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapour Pressure, mm Hg @ 20oC</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Odour and Appearance Information
Reagent 1: pH=7.7, Greenish Yellow color liquid

Reagent 2: N/A.

Reagent 3: N/A.

Reagent 4: N/A.

Reagent 5: N/A.

10. Stability and Reactivity

Incompatibility (Materials to Avoid):
Strong acids.

Hazardous Decomposition Products:
When mixed with acids lethal hydrogen cyanide gas is formed.

Will Hazardous Polymerization Occur?
Hazardous polymerization will not occur.

Conditions to Avoid / Polymerization: N/A.

Is the Product Stable?
Yes, under normal handling and storage conditions.

Conditions to Avoid/stability
Stable Solution. Avoid acidification of solution, which may generate hydrogen cyanide gas.

11. Toxicological Information

Toxicity Data:
N/A.
Reproductive effects:
N/A.

Target organ Effects:
Eyes, Skin, central nervous systems (nausea/vomiting), cardiovascular systems (increase in heart rate), digestive system (nausea/vomiting).

Carcinogenicity: No

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS #</th>
<th>% W/V</th>
<th>NTP Carcinogen</th>
<th>IARC</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A.</td>
<td></td>
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</table>

12. Ecological Information

Environmental Fate / Stability:
N/A

Effect of Material on plants or animals:
N/A

Effect of Chemical on Aquatic Life:
N/A

13. Disposal Considerations

EPA Waste Number and Proper Waste Disposal Method:
Do not flush potassium cyanide into drains or sewers. Please consult local, state and federal regulations for additional guidance on disposal.

14. Transportation Information

Is this Material Hazardous? Not regulated under transportation regulations.

| Proper Shipping Name : N/A |
| Hazard Class Number : N/A |
| Packing Group : N/A |
| UN Number : N/A |

15. Regulatory Information

NA.

16. Other Information

NA => NOT APPLICABLE or NO INFORMATION