1. Product and Company Identification

Product identifier YSI 2363 Potassium Ferrocyanide
Version # 01
Issue date 03-June-2014
Revision date -
Supersedes date -
Product code 2363
Product use Analysis Standard/Reagent
Manufacturer YSI, Inc
Manufacturer information
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Yellow Springs, Ohio 45387
MSDSInfo@ysi.com
(937) 767-7241
CHEMTREC (US/Canada) (800) 424-9300
CHEMTREC (International) 011 703-527-3887
(Collect calls accepted)

2. Hazards Identification

Emergency overview Exposure to powder or dusts may be irritating to eyes, nose and throat.

Potential health effects

Routes of exposure

Inhalation.

Eyes Dust in the eyes will cause irritation.

Skin Dust or powder may irritate the skin.

Inhalation Dust may irritate respiratory system.

Ingestion May cause irritation.

Signs and symptoms Dust may irritate the eyes and the respiratory system.

Potential environmental effects May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>POTASSIUM FERROCYANIDE TRIHYDRATE</td>
<td>14459-95-1</td>
<td>60 - 100</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures

Eye contact Rinse with water. Get medical attention if irritation develops and persists.
Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Inhalation If dust from the material is inhaled, remove the affected person immediately to fresh air.
Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
General advice If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS criteria.
Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Use water spray to cool unopened containers.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Explosion data

Sensitivity to static discharge

Not available.

Sensitivity to mechanical impact

Not available.

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits. For personal protection, see section 8 of the MSDS.

Environmental precautions

Do not contaminate water.

Methods for containment

If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product.

Methods for cleaning up

Minimize dust generation and accumulation. Should not be released into the environment. This product is miscible in water. Collect dust using a vacuum cleaner equipped with HEPA filter. Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling

Avoid release to the environment. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid breathing dust. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Practice good housekeeping.

Storage

Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the MSDS).

8. Exposure Controls / Personal Protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.

Personal protective equipment

Eye / face protection

Use tight fitting goggles if dust is generated.

Skin protection

Wear suitable protective clothing.

Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

9. Physical & Chemical Properties

Appearance

Not available.

Physical state

Solid.

Form

Powder.

Color

White

Odor

None.

Odor threshold

No data available.

pH

6.5 - 7.5

Vapor pressure

Not applicable.

Vapor density

Not applicable.

Boiling point

No data available.
Melting point/Freezing point: 158 °F (70 °C)
Solubility (water): Infinitely soluble
Specific gravity: 1.85
Flash point: Not applicable.
Flammability limits in air, upper, % by volume: No data available.
Flammability limits in air, lower, % by volume: No data available.
Auto-ignition temperature: No data available.
Evaporation rate: No data available.
Viscosity: Not applicable.
Partition coefficient (n-octanol/water): No data available.
Molecular formula: C₆FeN₆.₃H₂O.₄K

10. Chemical Stability & Reactivity Information
Chemical stability: Material is stable under normal conditions.
Conditions to avoid: Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Incompatible materials: Strong acids.
Hazardous decomposition products: Nitrogen oxides (NOx). Hydrogen cyanide.
Possibility of hazardous reactions: Hazardous polymerization does not occur.

11. Toxicological Information
Acute effects: Not classified.
Local effects: Inhalation of dusts may cause respiratory irritation.
Chronic effects: Not expected to be hazardous by WHMIS criteria.

12. Ecological Information
Ecotoxicity: Contains a substance which causes risk of hazardous effects to the environment.
Environmental effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability: Not available.
Mobility in environmental media: This product is miscible in water.

13. Disposal Considerations
Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
Waste from residues / unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information
TDG
Not regulated as dangerous goods.
IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.

15. Regulatory Information
Canadian regulations
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
WHMIS status
Non-controlled

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
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<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
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<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
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<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*"Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

NFPA ratings
Health: 1
Flammability: 0
Instability: 0

Disclaimer
The information in the sheet was written based on the best knowledge and experience currently available.