



# MATERIAL SAFETY DATA SHEET

Revision Number A95010D  
3/30/09

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

**Product name** YSI 2363 Potassium Ferrocyanide  
**Synonyms** None  
**Chemical characterization** solid  
**Manufacturer, importer, supplier** YSI, Inc  
1700/1725 Brannum Lane  
Yellow Springs, OH 45387  
**EMERGENCY TELEPHONE NUMBER** 1- 937- 767- 7241

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical Name	% Weight	ACGIH TWA	Acute Toxicity	IARC*	NTP*	OSHA*
14459-95-1	Potassium ferrocyanide	100			N/A	N/A	N/A

\* IARC - Group 1 (Carcinogenic to humans)

\* NTP - Report on Carcinogens - Known Carcinogens

\* OSHA - Regulated Carcinogens

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

Dust from this product may be irritating to eyes, skin, and respiratory system

<b>Eye Contact</b>	<ul style="list-style-type: none"><li>Can cause severe irritation</li></ul>
<b>Skin Contact</b>	<ul style="list-style-type: none"><li>Exposure can cause skin irritation</li></ul>
<b>Inhalation</b>	<ul style="list-style-type: none"><li>Possible irritation of nasal passages from breathing dust from this product</li></ul>
<b>Ingestion</b>	<ul style="list-style-type: none"><li>Toxic; do not swallow. Rinse mouth with water and afterwards drink plenty of water. No effects expected from normal use.</li></ul>
<b>General Advice</b>	<ul style="list-style-type: none"><li>As with any chemical, use caution when handling</li><li>If exposure effects persist seek medical attention</li></ul>
<b>Principle Routes of Exposure</b>	<ul style="list-style-type: none"><li>Eyes, absorption, ingestion</li></ul>
<b>Eye Contact</b>	<ul style="list-style-type: none"><li>Can cause severe irritation</li></ul>

## 4. FIRST AID MEASURES

<b>General Advice</b>	<ul style="list-style-type: none"><li>If exposure symptoms persist, seek medical attention.</li></ul>
<b>Skin Contact</b>	<ul style="list-style-type: none"><li>Wash exposed areas with soap and water for 15 minutes</li></ul>
<b>Eye Contact</b>	<ul style="list-style-type: none"><li>Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes</li></ul>
<b>Inhalation</b>	<ul style="list-style-type: none"><li>Move to fresh air in case of accidental inhalation</li></ul>
<b>Ingestion</b>	<ul style="list-style-type: none"><li>For ingestion of large amounts induce vomiting if person is conscious. If conditions persist, seek medical attention.</li></ul>
<b>Notes to Physician</b>	<ul style="list-style-type: none"><li>Treat symptomatically</li></ul>
<b>Protection of First-Aiders</b>	<ul style="list-style-type: none"><li>Use necessary personal protective equipment</li></ul>
<b>Aggravated Medical Conditions</b>	<ul style="list-style-type: none"><li>Users with skin conditions (eczema, psoriasis, etc), respiratory conditions (asthma, bronchitis, emphysema, etc), or with chemical sensitivities should take protective precautions\</li></ul>

## 5. FIRE-FIGHTING MEASURES

Flash Point	<ul style="list-style-type: none"> <li>None</li> </ul>
Suitable Extinguishing Media	<ul style="list-style-type: none"> <li>Not applicable to this product</li> </ul>
Extinguishing media which must not be used for safety reasons	<ul style="list-style-type: none"> <li>None</li> </ul>

### Specific Hazards

Special exposure hazards rising from the substance or preparation itself, its combustion products, or released gases	<ul style="list-style-type: none"> <li>None</li> </ul>
Special protective equipment for firefighters	<ul style="list-style-type: none"> <li>None</li> <li>As in any fire, wear self-contained breathing apparatus, and full protective gear</li> </ul>

### Specific Methods

<b>NFPA (National Fire Protection Association)</b>	Health=2 (slight)	Reactivity=0	Fire=0	Special=0 (none)
<b>HMIS (Hazardous Material Information System)</b>	Health=2 (slight)	Reactivity=0	Fire=0	Special=0 (none)

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	<ul style="list-style-type: none"> <li>Ensure adequate ventilation</li> <li>Use necessary personal protective equipment</li> </ul>
Environmental precautions	<ul style="list-style-type: none"> <li>No information available</li> </ul>
Methods for cleaning up	<ul style="list-style-type: none"> <li>Pick up and transfer to properly labeled container for disposal</li> <li>After cleaning, flush away traces with water</li> </ul>

## 7. HANDLING AND STORAGE

### Handling

Technical Measures / Precautions	<ul style="list-style-type: none"> <li>Avoid contact with skin, eyes, and clothing</li> </ul>
Safe Handling Advice	<ul style="list-style-type: none"> <li>Wash hands immediately after contact to avoid hand-eye transfer</li> <li>Wear personal protective equipment</li> </ul>

### Storage

Technical Measures / Precautions	<ul style="list-style-type: none"> <li>Store in properly labeled containers</li> <li>Keep containers tightly closed. Store in cool, dry, well ventilated area away from incompatible substances.</li> </ul>
Incompatible Products	<ul style="list-style-type: none"> <li>Avoid strong acids, oxidizing agents</li> </ul>

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures	<ul style="list-style-type: none"> <li>Ensure adequate ventilation, especially in confined areas</li> <li>Ensure eyewash station is readily available</li> </ul>
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### Personal protective equipment

Hand Protection	<ul style="list-style-type: none"> <li>Wear the appropriate protective gloves</li> </ul>
Eye protection	<ul style="list-style-type: none"> <li>Wear tightly fitting safety goggles or safety glasses with side-shields</li> <li>Face-shield</li> </ul>
Respiratory Protection	<ul style="list-style-type: none"> <li>Ensure adequate ventilation is available before handling any chemical</li> <li>In case of insufficient ventilation, wear suitable respiratory equipment</li> </ul>
Skin and Body Protection	<ul style="list-style-type: none"> <li>Long sleeved clothing</li> <li>Boots</li> <li>apron</li> </ul>
Hygiene measures	<ul style="list-style-type: none"> <li>Handle in accordance with good industrial hygiene and safety practice</li> </ul>

	<ul style="list-style-type: none"> <li>Keep away from food, drink, and animal feeding stuffs</li> </ul>	
<b>Environmental exposure controls</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General Information

<b>Form</b>	Solid
<b>Appearance</b>	White powder
<b>Odor</b>	None

### Important Health Safety and Environmental Information

<b>pH</b>	6.5 to 7.5
<b>Boiling Point / Range</b>	No information available
<b>Flash Point</b>	None
<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density</b>	Not applicable
<b>Water Solubility</b>	Infinitely soluble
<b>Specific Gravity</b>	1.85
<b>Melting Point</b>	70 °C

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	<ul style="list-style-type: none"> <li>Stable under normal conditions</li> </ul>
<b>Materials to Avoid</b>	<ul style="list-style-type: none"> <li>Strong acids and oxidizing agents</li> </ul>
<b>Hazardous Decomposition Products</b>	<ul style="list-style-type: none"> <li>When heated, the possibility of nitrogen oxides and hydrogen cyanides being emitted</li> </ul>
<b>Polymerization</b>	<ul style="list-style-type: none"> <li>Polymerization does not occur</li> </ul>

## 11. TOXICOLOGICAL INFORMATION

### Local Effects

<b>Skin Irritation</b>	<ul style="list-style-type: none"> <li>May cause skin irritation</li> </ul>
<b>Eye Irritation</b>	<ul style="list-style-type: none"> <li>Can cause severe irritation</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>May cause irritation in nasal passages</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>No effects expected from normal use. Ingestion of this product may cause digestive system upset</li> </ul>
<b>Sensitization</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>
<b>Chronic Toxicity</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>

### Specific Effects

<b>Carcinogenic Effects</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>
<b>Mutagenic Effects</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>
<b>Reproductive Toxicity</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>
<b>Target Organ Effects</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity Effects

### Product Information

<b>Aquatic Toxicity</b>	No information available.
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### Other Information

<b>Ozone Depletion Potential; ODP; (R-11=1)</b>	No information available.
<b>Global Warming Potential (GWP)</b>	No information available.

<b>Additional Ecological Information</b>	No information available
<b>Mobility</b>	No information available.
<b>Bioaccumulative Potential</b>	No information available.
<b>Ecotoxicity Effects</b>	No information available
<b>Aquatic Toxicity</b>	No information available.

### 13. DISPOSAL CONSIDERATIONS

<b>Waste From Residues / Unused Products</b>	<ul style="list-style-type: none"> <li>Dispose of in accordance with local regulations</li> </ul>
<b>Contaminated Packaging</b>	<ul style="list-style-type: none"> <li>Empty containers should be rinsed and disposed of as appropriate for glass and plastic containers</li> </ul>

### 14. TRANSPORT INFORMATION

**DOT** Not regulated  
**UN-No**  
**Proper shipping name**  
**Packing group**  
**Subsidiary Risk**  
**Description**

### 15. REGULATORY INFORMATION

#### U.S. Inventories

CAS	Chemical Name	% Weight	ACGIH*
14459-95-1	Potassium ferrocyanide	100	N/A

\* ACGIH - Occupational Exposure Limits - TWA's

#### International Inventories

CAS	Chemical Name	% Weight	EUOED*
14459-95-1	Potassium ferrocyanide	100	N/A

\* EUOED - EU Occupational Exposure Directive (98/24/EC) Indicative Occupational Exposure Limit Values (IOELV)

### 16. OTHER INFORMATION

**Literary Reference** None.  
**Prepared By** YSI, Inc.  
 End of Safety Data Sheet.