

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier YSI 2363 Potassium Ferrocyanide

Version #

03-June-2014 Issue date

Revision date Supersedes date

Product code 2363

Product use Analysis Standard/Reagent

YSI, Inc Manufacturer

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(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

Components	CAS#	Percent	
POTASSIUM FERROCYANIDE TRIHYDRATE	14459-95-1	60 - 100	

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.

Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately. Ingestion If you feel unwell, seek medical advice (show the label where possible). Show this safety data **General advice**

sheet to the doctor in attendance.

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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

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Do not use water jet as an extinguisher, as this will spread the fire.

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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.

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

Specific methods **Explosion data**

Sensitivity to static

discharge

Not available.

Sensitivity to mechanical

impact

Not available.

6. Accidental Release Measures

Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Wear a dust Personal precautions

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.

Store in original tightly closed container. Store in a well-ventilated place. Store away from Storage

incompatible materials (see Section 10 of the MSDS).

8. Exposure Controls / Personal Protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates **Engineering controls**

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

Use tight fitting goggles if dust is generated. Eye / face protection

Wear suitable protective clothing. Skin protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels Respiratory protection

exceeding the exposure limits.

9. Physical & Chemical Properties

Not available. **Appearance**

Physical state Solid. **Form** Powder. White Color Odor None.

Odor threshold No data available.

6.5 - 7.5

Not applicable. Vapor pressure Vapor density Not applicable. **Boiling point** No data available.

YSI 2363 Potassium Ferrocyanide **MSDS** Canada Melting point/Freezing point 158 °F (70 °C)

Solubility (water) Infinitely soluble

Specific gravity 1.85

Flash point Not applicable.
Flammability limits in air, No data available.
upper, % by volume

Flammability limits in air, lower, % by volume

No data available.

Auto-ignition temperature

Evaporation rate

Viscosity

No data available.

No data available.

Not applicable.

Partition coefficient (n-octanol/water)

No data available.

Molecular formula

C6FeN6.3H2O.4K

Other data

Decomposition temperature

No data available.

Density

Explosive limit - lower (%)

Explosive limit - upper (%)

Explosive properties

No data available.

Explosive properties

No data available.

Flammability (solid, gas)

Oxidizing properties

No data available.

No data available.

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 effectsInhalation of dusts may cause respiratory irritation.Chronic effectsNot 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).

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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

Country(s) or region

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS Canadian regulations

contains all the information required by the CPR.

WHMIS status Non-controlled

Inventory status

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

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Toxic Substances Control Act (TSCA) Inventory

16. Other Information

United States & Puerto Rico

NFPA ratings Health: 1

Flammability: 0 Instability: 0

Inventory name

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

available.

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On inventory (yes/no)*

Yes

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).