

Material Safety Data Sheet

Section 1: Company and Product Information

Product Identification

Name: Ferroin Indicator Solution	Code No: R-1020
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WET International, Inc.
135 E. St. Charles Rd., Ste. G
Carol Stream, IL 60188
Tel: 630-221-0790

Emergency Response #: 800-535-5053 Infotrac

Section 2: Composition/ Information on Ingredients

Hazardous Ingredients

Name	CAS #	%	PEL	TLV	SARA Title 313
1,10-Phenanthroline monohydrate	5144-89-8	<5	None established	None established	No
Ferrous sulfate heptahydrate	7782-63-0	<1	1 mg/m ³ (Fe)	NIA	No

Non-Hazardous Ingredients

Name	CAS #	%
Water	7732-18-5	>95

Section 3: Physical and Chemical/ Reactivity Properties

Appearance: Red liquid	Stability: <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable
Odor: Slight characteristic	Boiling Point: NIA
pH: <6	Melting Point: N/A
Solubility in Water: Miscible	Vapor Pressure: NIA
Conditions to Avoid: Extreme temperatures	Hazardous Decomposition Products: 1,10-Phenanthroline liberate hazardous fumes in contact with flames

Section 4: Fire and Explosion Data:

Flash Point: N/A	Flammable Limits: LEL: N/A	UEL: N/A
Extinguishing Media: Dry chemicals, CO ₂ or water spray		
Special Fire Fighting Procedures: Firefighters must wear SCBA		
Unusual Fire or Explosion Hazards: See hazardous decomposition products		
HMIS Hazard: Health: 1 Flammability: 0 Reactivity: 0 Scale: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Least		

Section 5: Health Hazard Data

Toxicity: Acute: Irritant to eyes, No other medical information is available	Chronic: 1,10-Phenanthroline is reported a mutagen in mice at 5uMol/L
Primary Route of Entry: <input type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Skin	Carcinogenicity <input checked="" type="checkbox"/> None <input type="checkbox"/> OSHA <input type="checkbox"/> NFT <input type="checkbox"/> IARC
Target Organs:	Eyes, skin. Cellular DNA mutation reported for 1,10-Phenanthroline in mice
Over Exposure:	See chronic toxicity

Section 6: Emergency First Aid Procedures:

Eye Contact:	Flush with flooding amounts of water. Gently lift the eyelids to rinse. Call for professional medical help
Ingestion:	Contact the poison control center or call 911. Never give anything by mouth to an unconscious or convulsing person.
Inhalation:	Remove exposed person to fresh air and support breathing as needed
Skin Contact:	Flush with flooding amounts of water for at least 15 minutes. Remove contaminated clothing
Others:	After first aid, get appropriate in-plant, paramedic or community medical support.

Section 7: Accidental Release Measures:

Spill/Leak Procedures:	Notify safety personnel, isolate and ventilate the area, deny entry. Shut off ignition sources. Clean up personnel should protect against vapors inhalation and skin/ eye contact
Small Spills:	Take up with earth, sand, vermiculite or other absorbent non-combustible material and place in suitable containers
Large Spills:	Containment – Dike far ahead of liquid, semi-solid or solid spills. Do not release into the sewer waterways Regulatory Requirements - Follow applicable OSHA regulations (29 CFR 1910.120) Contact local authorities

Section 8: Handling and Storage Measures

Handling Precautions:	Use gloves, laboratory coats or aprons. Safety glasses should be worn at all times
Ventilation:	Use and storage under proper ventilated areas. Enclosed areas might lead to accumulation of vapors. Mechanical ventilation is optimum
Storage Requirements:	Store in cool, dry, well ventilated areas. Avoid excessive heat
Others:	Good working hygiene practices should be observed for personal protection

Disclaimer: The above information is believed to be correct but it does not claim to be all-inclusive and should be used only as guide. Judgements as to the suitability of the information herein for the purchaser's purposes are necessarily the purchaser's responsibility.

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