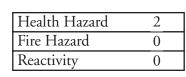
Material Safety Data Sheet



PPE (See Section 15)







HMIS



Trade Name CadmiumTest Part # RE2024

CAS # 366-18-7 / 7681-11-0 / 7782-63-0

Manufacturer Haztech Systems, Inc.

PO Box 929

Mariposa, CA 95338

RTECS DW1750000 / OD5525000 / TT297500

TSCA

Commercial Name

Synonyms a,a'-Dipyridyl CI #

2,2'-Bipyridine

HazCat Cadmium Test is 2,2' bipyridine chelated

with iron in a potassium iodide solution.

In case of emergency contact CHEMTREC

(24 hours) at 800-424-9300

Chemical Formula C10H8N2, FeSO4, KI, H2O

HazTech Systems, Inc. 800-543-5487

Supplier Spectrum Chemical Mfg. Corp.

14422 S. San Pedro St. Gardena, CA 90248 Spectrum Chemical Mfg. Corp. 310-516-8000

Section 2. Composition and Information on Ingredients

Exposure Limits Name CAS# CEIL (mg/m3) % by Weight TWA (mg/m3)STEL 2,2'-Bipyridine 366-18-7 <1% Potassium Iodide 7681-11-0 17% Ferrous Sulfate Heptahydrate 7782-63-0 1 2 <1% 82% Water 7681-11-0

Toxicological 2,2'-Bipyridine: ORAL (LD50): Acute: 100 mg/kg (Rat). 150 mg/kg (Mouse).

Data on Potassium Iodide LD50: Not available. LC50: Not available.

Ingredients Ferrous sulfate heptahydrate: ORAL (LD50): Acute: 1520 mg/kg (Mouse). 1480 mg/kg (Rat).

Section 3. Hazards Identification

Health Effects

Potential Acute Very hazardous in case of ingestion, of inhalation. Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant). Severe over-exposure can result in death.

Potential Chronic Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant).

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to lungs, mucous membranes.

Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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Section 4. First Aid Mearsures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at

least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.

Skin Contact Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation

develops.

Serious Skin Contact Not available.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

Serious Inhalation Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or

waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth

resuscitation. Seek medical attention.

Ingestion If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by

mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical

Serious Ingestion attention immediately.

Section 5. Fire and Explosion Data

Flammability Aqueous solution

Auto-Ignition Temperature Not available.

Flash Point Not available.

Flammable Limits Not available

Products of Combustion These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2 etc.).

Fire Hazards in Presence of Various Substances

Not available.

Explosion Hazards in Presence

of Various Substances

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions

Aquesous solution.

Section 6. Accidental Release Measures

Small Spill Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Section 7. Handling and Storage

Precautions Avoid contact with eyes. Wear suitable protective clothing. Use adequate ventilation. If ingested, seek medical

advice immediately and show the container or the label.

Storage Keep in HazCat Kit.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Use in a well ventilated area.

Personal Protection Gloves and goggles.

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Guarriani Test						1480001
Section 9. Physical and C	hemical Properties					
Physical State and Appearance	Clear pink liquid		Volatili	ty	Not availab	le
Molecular Weight	Not available		Odor T	hreshold	Not availab	le
pH (1% Solution in Water)	7		Water/0	Oil Dist. Coeff.	Not availab	le
Boiling Point	Not available		Ionicity	(in Water)	Not availab	le
Melting Point	Not available		Dispersion Properties		Not available	
Critical Temperature	Not available		Solubility		Water	
Specific Gravity	Not available		Odor		Not available	
Vapor Pressure	Not available		Taste		Not availab	le
Vapor Density	Not available		Color		Red	
Section 10. Stability and	d Reactivity Data					
Stability	Product is stable.			Corrosivity		Not available.
Instability Temperature	Not available.		Special Remark on Corrosivity Polymerization			Not available.
Conditions of Instability	Reagent turns yellow longer effective.				Will not polymerize.	
Incompatability with Various Substances	Not available.	w in not polymenze.				
Section 11. Toxicological	Information					
Route of Entry	Eye contact. Inhalation. Ingestion.					
Toxicity to Animals	2,2'-Bipyridine: Acute oral toxicity (LD50): 100 mg/kg (kg (Rat).
Chroinc Effects on Humans		Very hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant).				
Other Toxic Effects on Humans		Causes damage to the following organs: lungs, mucous membranes.				
Special Remarks on Toxicity to A Special Remarks on Chronic Effe	Not available. Not available.					

Section 12. Ecological Information

Special Remarks on Other Toxic Effects on Humans

Ecotoxicity Not available.

BOD5 and COD Not available.

Products of Biodegradation Possibly hazardous short term degradation products are not likely. However,

Not available.

long term degradation products mayarise.

Toxicity of the Products of Biodegradation The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation Not available.

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Section 13. Disposal Considerations

Waste Disposal Recycle to process, if possible. Consult your local or regional authorities.

Section 14. Transport Information

DOT Classification Non-regulated based on toxicity calculations.

Identification

Special Provisions for Transport

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations TSCA 8(b) inventory: 2,2'-Bipyridine

Pennsylvania RTK: Ferrous sulfate heptahydrate Massachusetts RTK: Ferrous sulfate heptahydrate TSCA 8(b) inventory: Ferrous sulfate heptahydrate

SARA 313 toxic chemical notification and release reporting: Ferrous sulfate heptahydrate

CERCLA: Hazardous substances.: Ferrous sulfate heptahydrate

California Proposition 65 Warnings

California prop. 65: This product contains the following ingredients for which the

State of California has found to cause birth defects which would require a warning under

the statute: Potassium Iodide

Other Regulation OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other classifications WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).

DSCL (EEC) R25- Toxic if swallowed.

R36- Irritating to eyes. R38- Irritating to skin.

R41- Risk of serious damage to eyes.

Section 16. Other Information

Part Number(s) RE2024

References Not available.

Other Special Considerations Not available.

Validated by R. Houghton 10/9/02

Verified by R. Turkington

Call 1-800-543-5487

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Haztech Systems, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.