







HMIS

| Health Hazard | 4 |
|---------------|---|
| Fire Hazard | 3 |
| Reactivity | 0 |

PPE (See Section 15)





Section 1. Chemical Product and Company Identification

Trade Name Arsenic Test 1

(Meth Kit Red Phosphorous Test 1)

Haztech Systems, Inc.

PO Box 929

Mariposa, CA 95338

Commercial Name Mercuric chloride in methanol

Synonyms of Ingredients

Manufacturer

Mercury bichloride, Calochlor

Wood alcohol, Methanol; Methylol;

Wood Spirit; Carbinol

Chemical Formula HgCl2, CH3OH

Supplier Spectrum Chemical Mfg. Corp.

14422 S. San Pedro St. Gardena, CA 90248 Part # RE2008, RE2089

CAS # 7487-94-7 / 67-56-1

RTECS OV9100000 / PC1400000

TSCA TSCA8(b) inventory:

Mercuric chloride Methyl alcohol

CI#

In case of emergency contact CHEMTREC

(24 hours) at 800-424-9300

HazTech Systems, Inc. 800-543-5487

Spectrum Chemical Mfg. Corp. 310-516-8000

Section 2. Composition and Information on Ingredients

| | Exposure Limits | | | | | | |
|-------------------------------------|----------------------|-------------|------|--------------|-------------|--|--|
| Name | CAS # | TWA (mg/m3) | STEL | CEIL (mg/m3) | % by Weight | | |
| Mercuric chloride Methyl alcohol | 7487-94-7 67-56-1 | 0.05 260 | | 0.15 325 | ~5% ~95% | | |

Toxicological Data on Mercuric chloride: ORAL (LD50): Acute: 1 mg/kg (Rat.). DERMAL (LD50): Acute: 41 mg/kg (Rat).

Methyl alcohol: ORAL (LD50): Acute: 5628 mg/kg (Rat.). DERMAL (LD50): Acute: 15800 mg/kg (Rabbit).

Ingredients

Section 3. Hazards Identification

Potential Acute Health Effects Very hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects

Very hazardous in case of skin contact (permeator).

CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Classified POSSIBLE for human. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Development toxin [POSSIBLE]. The substance is toxic to kidneys, nervous system, gastrointestinal tract, eyes. The substance may be toxic to blood, kidneys, lungs, the reproductive system, liver, heart, brain, cardiovascular system, skin, central nervous system (CNS), pancreas. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an 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. Immediately flush eyes with running water for at least 15 minutes,

keeping eyelids open. Cold water may be used. Get medical attention.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated

clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before

reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

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

medical attention immediately.

Ingestion Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible

indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth

resuscitation. Seek immediate medical attention.

Section 5. Fire and Explosion Data

Flammability Flammable.

Auto-Ignition Temperature 464°C (867.2°F)

Flash Point CLOSED CUP: 12°C (53.6°F). OPEN CUP: 16°C (60.8°F).

Flammable Limits LOWER: 6% UPPER: 36.5%

Products of Combustion These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances

Highly flammable in presence of open flames and sparks, of heat, of combustible materials.

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

Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder.

Special Remarks on Fire Hazards CAUTION: MAY BURN WITH NEAR INVISIBLE FLAME. Explosive when mixed with

Choroform + sodium methoxide and diethyl zinc. It boils violently and explodes. When heated

to decomposition it emits toxic fumes.

Section 6. Accidental Release Measures

Small Spill Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal

container.

Section 7. Handling and Storage

Precautions Keep away from sources of accidental ignition. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek

medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage Keep in HazCat Kit.

| Section 8. Exposure Controls/Personal Protection

Personal Protection Gloves and goggles.

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| Arsenic Test I | | | | | Page 3 of 4 | | |
|---|---|--|---|--------------------------|-----------------------------------|--|--|
| Section 9. Physical and Cl | hemical Properties | | | | | | |
| Physical State and Appearance | Clear liquid | | Volatility | Not available | | | |
| Molecular Weight | Not available | | Odor Threshold | old 100 ppm | | | |
| pH (1% Solution in Water) | Not available | | Water/Oil Dist. Coeff. | Not available | | | |
| Boiling Point | Not available | | Ionicity (in Water) | Not availa | Not available | | |
| Melting Point | Not available | | Dispersion Properties | Not available | | | |
| Critical Temperature | Not available | | Solubility | • | Easily soluble in cold water, hot | | |
| Specific Gravity | Not available | | Odor | Water, met Not availa | thanol, diethyl ether. ble | | |
| Vapor Pressure | Not available | | Taste | Not available | | | |
| Vapor Density | 1.11 (Air = 1) | | Color | Colorless | | | |
| Section 10. Stability and | d Reactivity Data | | | | | | |
| Stability | Product is stable. | | Corrosivity | | Non-corrosive in | | |
| Instability Temperature | Not available. | | Special Remai on Corrosivity | | | | |
| Conditions of Instability | Not available. | | Polymerizatio | n V | Will not polymerize. | | |
| Incompatability with Various Substances | Highly reactive with Reactive with metalz | | i orymenzatio | i wili not polymenze. | | | |
| Section 11. Toxicological | Information | | | | | | |
| Route of Entry Toxicity to Animals | Dermal contact. Eye contact. Inhalation. Ingestion. Absorbed through skin. Mercuric chloride: Acute oral toxicity (LD50): 1 mg/kg (Rat). Acute derma | | | | | | |
| Chroinc Effects on Humans CARCINOG ACGIH. TEI | | | 0): 41 mg/kg (Rat). ENIC EFFECTS: Classified A5 (Not suspected for human.) by ATOGENIC EFFECTS: Classified POSSIBLE for human. | | | | |
| Other Toxic Effects on Humans Very hat Causes system, blood, system, | | | DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female Development toxin [POSSIBLE]. The substance is toxic to kidneys. For year hazardous in case of skin contact (irritant, permeator), ingestion, inhalation causes damage to the following organs: lungs, mucous membranesthe nervous system, gastrointestinal tract, eyes. May cause damage to the following organs: lood, kidneys, lungs, the reproductive system, liver, heart, brain, cardiovascular system, skin, central nervous system (CNS), pancreas. | | | | |
| Special Remarks on Toxicity to A Special Remarks on Chronic Effe Special Remarks on Other Toxic | Not available. Excreted in maternal milk in animal. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract. | | | | | | |

Section 12. Ecological Information

Ecotoxicity Not available. BOD5 and COD Not available.

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

(800) 5ID-KITS

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 CLASS 3: Flammable liquid

Identification Flammable liquids, toxic, nos, (Methanol, Mercuric Chloride), 3, UN1992, II. Marine Pollutant

Special Provisions for Transport

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Mercuric chloride

Massachusetts RTK: Mercuric chloride TSCA 8(b) inventory: Mercuric chloride

SARA 302/304/311/312 extremely hazardous substances: Mercuric chloride SARA 313 toxic chemical notification and release reporting: Mercuric chloride

CERCLA: Hazardous substances.: Mercuric chloride Rhode Island RTK hazardous substances: Methyl alcohol

Pennsylvania RTK: Methyl alcohol Minnesota: Methyl alcohol

Massachusetts RTK: Methyl alcohol

New Jersey: Methyl alcohol

California Directors List of Hazardous Substances (8CCR 339): Methyl alcohol

Tennesse Hazardous Right to Know: Methyl alcohol

TSCA 8(b) inventory: Methyl alcohol

SARA 313 toxic chemical notification and release reporting: Methyl alcohol CERCLA: Hazardous substances.: Methyl alcohol: 5000 lbs. (2268 kg)

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: Mercuric chloride

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Regulation
Other classifications

WHMIS (Canada) CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).

CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).

CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC) R11- Highly flammable. R23/24/25- Toxic by inhalation, in contact with skin and if swallowed. R27- Very toxic in contact with skin. R38- Irritating to skin. R41- Risk of

serious damage to eyes.

Section 16. Other Information

Part Number(s) RE2008, RE2089
References Not available.
Other Special Considerations Not available.

Validated by
R. Houghton 10/9/02
Verified by
R. Turkington

Verified by Call 1-800-543-5487

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.