



# Material Safety Data Sheet



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

PPE (See Section 15)



## Section 1. Chemical Product and Company Identification

Trade Name **Iodine Crystal Test** Part # RE2039  
 CAS # 7553-56-2  
 Manufacturer Haztech Systems, Inc.  
 PO Box 929  
 Mariposa, CA 95338  
 RTECS NN1575000  
 TSCA TSCA 8(b) inventory:  
 Iodine  
 Commercial Name Iodine  
 CI #

Synonyms

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

Chemical Formula I<sub>2</sub>  
 Supplier Spectrum Chemical Mfg. Corp.  
 14422 S. San Pedro St.  
 Gardena, CA 90248

## Section 2. Composition and Information on Ingredients

| Name   | CAS #     | Exposure Limits          |      |                           | % by Weight |
|--------|-----------|--------------------------|------|---------------------------|-------------|
|        |           | TWA (mg/m <sup>3</sup> ) | STEL | CEIL (mg/m <sup>3</sup> ) |             |
| Iodine | 7553-56-2 |                          |      | 0.1                       | 100%        |

Toxicological Data on Ingredients Iodine: ORAL (LD50): Acute: 14000 mg/kg [Rat].

## Section 3. Hazards Identification

**Potential Acute Health Effects** Extremely hazardous in case of skin contact (corrosive, irritant, sensitizer, permeator), of eye contact (irritant), of ingestion, of inhalation. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Prolonged exposure may result in skin burns and ulcerations.

**Potential Chronic Health Effects** Over-exposure by inhalation may cause respiratory irritation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Extremely hazardous in case of skin contact (corrosive, irritant, sensitizer, permeator), of eye contact (irritant), of ingestion, of inhalation.

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

The substance is toxic to lungs. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

## Section 4. First Aid Measures

|              |   |
|--------------|---|
| 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    | 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 attention immediately.   |

## Section 5. Fire and Explosion Data

|   |   |
|---|---|
| Flammability  | Non-flammable.  |
| Auto-Ignition Temperature                           | Not applicable.   |
| Flash Point   | Not applicable.   |
| Flammable Limits                                    | Not applicable.   |
| Products of Combustion                              | Not applicable.   |
| Fire Hazards in Presence of Various Substances      | Not applicable.   |
| Explosion Hazards in Presence of Various Substances | Risks of explosion of the product in presence of mechanical impact: Not available.<br>Risks of explosion of the product in presence of static discharge: Not available. |
| Fire Fighting Media and Instructions                | Not applicable.   |
| Special Remarks on Fire Hazards                     | Not applicable.   |

## 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 | Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, combustible materials, organic materials, metals. |
| Storage     | Keep in HazCat Kit.  |

## Section 8. Exposure Controls/Personal Protection

|                      |                                |
|----------------------|--------------------------------|
| Engineering Controls | Use in a well ventilated area. |
| Personal Protection  | Gloves and goggles.            |

## Section 9. Physical and Chemical Properties

|                               |                  |                        |  |
|-------------------------------|------------------|------------------------|--|
| Physical State and Appearance | Solid.           | Volatility             | Not available  |
| Molecular Weight              | 253.8 g/mole     | Odor Threshold         | Not available  |
| pH (1% Solution in Water)     | Not available    | Water/Oil Dist. Coeff. | Not available  |
| Boiling Point                 | 184°C (363.2°F)  | Ionicity (in Water)    | Not available  |
| Melting Point                 | 114°C (237.2°F)  | Dispersion Properties  | Not available  |
| Critical Temperature          | Not available    | Solubility             | Soluble in methanol, diethyl ether.<br>Very slightly soluble in water. |
| Specific Gravity              | 4.93 (Water = 1) | Odor                   | Sharp Characteristic. (Strong.)  |
| Vapor Pressure                | Not available    | Taste                  | Not available  |
| Vapor Density                 | 8.8 (Air = 1)    | Color                  | Dark purple solid with metallic luster.                                |

## Section 10. Stability and Reactivity Data

|   |  |                                |   |
|---|--|--------------------------------|---|
| Stability                               | Product is stable.   | Corrosivity                    | Highly corrosive in presence of aluminum, of zinc, of copper. |
| Instability Temperature                 | Not available.   | Special Remarks on Corrosivity | Not available.  |
| Conditions of Instability               | Not available.   | Polymerization                 | Will not polymerize.  |
| Incompatibility with Various Substances | Highly reactive with combustible materials, organic materials, metals. |                                |   |

## Section 11. Toxicological Information

|  |  |
|--|--|
| Route of Entry                                   | Dermal contact. Eye contact. Inhalation. Ingestion.  |
| Toxicity to Animals                              | Iodine: Acute oral toxicity (LD50): 14000 mg/kg (Rat).   |
| Chronic Effects on Humans                        | DEVELOPMENTAL TOXICITY: PROVEN<br>The substance is toxic to lungs, the nervous system, the reproductive system, mucous membranes, gastrointestinal tract, upper respiratory tract. |
| Other Toxic Effects on Humans                    | Extremely hazardous in case of skin contact (corrosive, irritant, sensitizer, permeator), of ingestion, of inhalation.   |
| Special Remarks on Toxicity to Animals           | Not available.   |
| Special Remarks on Chronic Effects on Humans     | Not available.   |
| Special Remarks on Other Toxic Effects on Humans | Not available.   |

## 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, long term degradation products may arise. |
| Toxicity of the Products of Biodegradation        | The products of degradation are more toxic.   |
| Special Remarks on the Products of Biodegradation | Contains biodegradable surfactants.   |

## Section 13. Disposal Considerations

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

## Section 14. Transport Information

DOT Classification Not a DOT controlled material.

Identification Non-regulated.

Special Provisions for Transport Not applicable.

## Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Iodine  
Massachusetts RTK: Iodine  
TSCA 8(b) inventory: Iodine

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

DSCL (EEC) R35- Causes severe burns.  
R43- May cause sensitization by skin contact.

## Section 16. Other Information

Part Number(s) RE2039

References

Other Special Considerations Not available.

Validated by Not available.

Verified by R. Houghton 10/9/02

Call 1-800-543-5487 R. Turkington

## 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.