



HAZTECH
SYSTEMS,™
INC.

Material Safety Data Sheet

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NFPA



HMIS

| | |
|---------------|---|
| Health Hazard | 3 |
| Fire Hazard | 0 |
| Reactivity | 2 |

PPE (See Section 15)



Section 1. Chemical Product and Company Identification

| | | | |
|--------------|---|--------|---|
| Trade Name | Chloropicrin Test 1 | Part # | CKU2826 |
| Manufacturer | HazTech Systems, Inc. PO Box 929 Mariposa, CA 95338 | CAS # | 1310-58-3 |
| | | RTECS | TT2100000 |
| | | TSCA | TSCA 8(b) inventory: Potassium hydroxide |
| Synonyms | Potassium Hydroxide | CI # | |

Chemical Formula KOH

Supplier Spectrum Chemical Mfg. Corp.
14422 S. San Pedro St.
Gardena, CA 90248

In case of emergency contact CHEMTREC
(24 hours) at 800-424-9300

HazTech Systems, Inc. 800-337-2497

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 |
|---------------------|-----------|-------------|------|--------------|-------------|
| Potassium hydroxide | 1310-58-3 | | | 2 | 100 |

Toxicological Data on Ingredients Potassium hydroxide:
ORAL (LD50): Acute: 273 mg/kg [Rat]. 365 mg/kg [Rat]. 388 mg/kg [Rat].

Section 3. Hazards Identification

Potential Acute Health Effects Extremely hazardous in case of skin contact (corrosive, irritant), 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. 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 Extremely hazardous in case of skin contact (corrosive, irritant), 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, mucous membranes. 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.



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Section 4. First Aid Measures

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| 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. Do not use an eye ointment. Seek 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 | Allow the victim to rest in a well ventilated area. Seek immediate medical attention. |
| 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

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| Flammability | Non-flammable. |
| Auto-Ignition Temperature | Not available. |
| Flash Point | Not available. |
| Flammable Limits | Not available. |
| Products of Combustion | Not available. |
| 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 | SMALL FIRE: Not available. |
| Special Remarks on Fire Hazards | Not available. |

Section 6. Accidental Release Measures

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| Small Spill | Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. |
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Section 7. Handling and Storage

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| Precautions | If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapor/spray. |
| Storage | Keep in HazCat Unknowns Kit. |

Section 8. Exposure Controls/Personal Protection

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



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Section 9. Physical and Chemical Properties

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|-------------------------------|----------------------------------|------------------------|--|
| Physical State and Appearance | Solid | Volatility | Not available |
| Molecular Weight | 56.11 g/mole | Odor Threshold | Not available. |
| pH (1% Solution in Water) | 14 [Basic.] | Water/Oil Dist. Coeff. | Not available. |
| Boiling Point | Decomposes. (1384°C or 2523.2°F) | Ionicity (in Water) | Not available |
| Melting Point | 380°C (716°F) | Dispersion Properties | See solubility in water. |
| Critical Temperature | Not available | Solubility | Easily soluble in cold water, hot water. Soluble in methanol. |
| Specific Gravity | 2.044 (Water = 1) | Odor | Not available |
| Vapor Pressure | Not applicable. | Taste | Not available |
| Vapor Density | Not available | Color | Not available |

Section 10. Stability and Reactivity Data

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|--|--|-----------------------------------|---|
| Stability | Product is stable. | Corrosivity | Corrosive in presence of glass, of aluminum. |
| 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 acids. Reactive with moisture. | | |

Section 11. Toxicological Information

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| Route of Entry | Eye contact. Inhalation. Ingestion. |
| Toxicity to Animals | Acute oral toxicity (LD50): 273 mg/kg [Rat]. |
| Chronic Effects on Humans | The substance is toxic to lungs, mucous membranes. |
| Other Toxic Effects on Humans | Extremely hazardous in case of skin contact (corrosive, irritant), 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

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| 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 less toxic than the product itself. |
| Special Remarks on the Products of Biodegradation | Not available. |



Section 13. Disposal Considerations

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

Section 14. Transport Information

DOT Classification CLASS 8: Corrosive solid.

Identification Potassium hydroxide : UN1813 PG: II

Special Provisions Not available
for Transport

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations Pennsylvania RTK: Potassium hydroxide
Massachusetts RTK: Potassium hydroxide
TSCA 8(b) inventory: Potassium hydroxide
CERCLA: Hazardous substances.: Potassium hydroxide

California Proposition 65 Warnings

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).
CLASS E: Corrosive solid.

DSCL (EEC) R35- Causes severe burns.

Section 16. Other Information

Part number(s) CKU2826

Other Special Considerations Not available.

Validated by R. Houghton 5/16/02

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.