Material Safety Data Sheet

HAZTECH® SYSTEMS, INC. ™

NFPA

HMIS

Health Hazard	3
Fire Hazard	2
Reactivity	0

PPE (See Section 15)

Section 1. Chemical Product and Company Identification

Trade Name: Asbestos Test A4

Code: RE2017

CAS #: 64-19-7

RTECS: AF1225000

TSCA: TSCA 8(b) inventory: Acetic acid

Manufacturer: Haztech Systems, Inc.
PO Box 929
Mariposa, CA 95338

Commercial Name

Synonyms: Acetic acid; glacial acetic acid

CI #

Chemical Formula: C2-H4-O2

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

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

Section 2. Composition and Information on Ingredients

Exposure Limits

Name	CAS #	TWA (mg/m3)	STEL	CEIL (mg/m3)	% by Weight
Acetic acid	64-19-7	10	15		100

Toxicological Data on Ingredients: Acetic acid:
ORAL (LD50): Acute: 3310 mg/kg [Rat]. 4960 mg/kg [Mouse]. 3530 mg/kg [Rat].
DERMAL (LD50): Acute: 1060 mg/kg [Rabbit].
VAPOR (LC50): Acute: 5620 ppm 1 hours [Mouse].

Section 3. Hazards Identification

Potential Acute Health Effects: Extremely hazardous in case of skin contact (irritant), of eye contact (irritant). Very hazardous in case of ingestion, . Hazardous in case of skin contact (corrosive, permeator), of inhalation (lung irritant). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. 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:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.
The substance is toxic to lungs, mucous membranes, gastrointestinal tract, upper respiratory tract, skin, eyes, teeth.
The substance may be toxic to blood, kidneys.
Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

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. Get medical attention immediately.
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 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 if symptoms appear.

Section 5. Fire and Explosion Data

Flammability	Flammable.
Auto-Ignition Temperature	463°C (865.4°F)
Flash Point	CLOSED CUP: 39°C (102.2°F). OPEN CUP: 43°C (109.4°F).
Flammable Limits	LOWER: 4% UPPER: 19.9%
Products of Combustion	CO, CO2, H2O
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames and sparks, of heat. Slightly flammable to flammable in presence of oxidizing 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	SMALL FIRE: Dry chemical powder or CO2
Special Remarks on Fire Hazards	Not available.

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. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

Section 7. Handling and Storage

Precautions	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

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

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid	Volatility	Not available
Molecular Weight	60.05 g/mole	Odor Threshold	0.48 ppm
pH (1% Solution in Water)	2 [Acidic.]	Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water) = 0.5
Boiling Point	118.1°C (244.6°F)	Ionicity (in Water)	Not available
Melting Point	16.6°C (61.9°F)	Dispersion Properties	Not available
Critical Temperature	Not available	Solubility	Easily soluble water. Partially soluble in methanol, diethyl ether, acetone.
Specific Gravity	1.053 (Water = 1)	Odor	Pungent, vinegar (Strong.)
Vapor Pressure	1.5 kPa (@ 20°C)	Taste	Stong.
Vapor Density	2.07 (Air = 1)	Color	Colorless. (Light.)

Section 10. Stability and Reactivity Data

Stability	Product is stable.	Corrosivity	Highly corrosive in presence of glass, steel, aluminum, zinc, copper
Instability Temperature	Not available.	Special Remarks on Corrosivity	Reacts violently with strong oxidizing agents.
Conditions of Instability	Not available.	Polymerization	Will not polymerize.
Incompatability with Various Substances	Reactive with oxidizing agents, metals, acids, alkalis.		

Section 11. Toxicological Information

Route of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral (LD50): 3310 mg/kg [Rat].Acute dermal (LD50): 1060 mg/kg [Rabbit]. Acute toxicity of vapor (LC50): 5620 1 hours [Mouse].
Chroinc Effects on Humans	Causes damage to: lungs, mucous membranes, gastrointestinal tract, upper respiratory tract, skin, eyes, teeth. May damage: blood, kidneys.
Other Toxic Effects on Humans	Extremely hazardous in case of skin contact, eye contact , inhalation. Very hazardous in case of ingestion, Hazardous in case of skin contact, 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	Ecotoxicity in water (LC50): 423 mg/l 24 hours [Fish (Goldfish)]. 88 ppm 96 hours [Fish (fathead minnow)]. 75ppm 96 hours [Fish (bluegill sunfish)]. >100 ppm 96 hours [Daphnia].
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.

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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 8: Corrosive material

Identification — Acetic Acid, Glacial : UN2789 PG: II

Special Provisions for Transport — Not applicable.

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations — New York release reporting list: Acetic acid
Rhode Island RTK hazardous substances: Acetic acid
Pennsylvania RTK: Acetic acid
Florida: Acetic acid
Minnesota: Acetic acid
Massachusetts RTK: Acetic acid
New Jersey: Acetic acid
TSCA 8(b) inventory: Acetic acid
CERCLA: Hazardous substances.: Acetic acid: 5000 lbs. (2268 kg)

California Proposition 65 Warnings

Other Regulation — 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 classifications — WHMIS (Canada) CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid.

DSCL (EEC) R10- Flammable. R35- Causes severe burns. S23- Do not breathe gas/fumes/vapour/spray S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 16. Other Information

Catalog Number(s) — RE2017

References — Not available.

Other Special Considerations — Not available.

Validated by — R. Houghton 11/26/01

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, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

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