HAZTECH SYSTEMS,™ INC.

Material Safety Data Sheet

NFPA

HMIS

Health Hazard	2
Fire Hazard	0
Reactivity	0

PPE (See Section 15)

Section 1. Chemical Product and Company Identification

Trade Name: DMSO Test

Manufacturer: HazTech Systems, Inc.
P.O. Box 929
Mariposa, CA 95338

Commercial Name: Not available

Synonym: Not available.

Chemical Name: Not applicable.

Chemical Family: Not Available

Chemical Formula: Not applicable.

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

Code: RE2138

CAS #: Mixture

RTECS: Not applicable.

TSCA: TSCA8(b) inventory:
Chromic acid; Water.

CI #: Not Available

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/m^3)	STEL	CEIL (mg/m3)	% by Weight
1) Chromic acid	7738-94-5	1		1	10
2) Water	7732-18-5				90

Toxicological Data on Ingredients: Chromic acid:
ORAL (LD50) Acute: 80 mg/kg [Rat]. 127 mg/kg [Mouse].

Section 3. Hazards Identification

Potential Acute Health Effects: Very hazardous in case of skin contact (irritant), of ingestion. Hazardous in case of skin contact (corrosive), of eye contact (irritant), of inhalation. 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.

Potential Chronic Health Effects: Non-corrosive for skin. Non-irritant for skin. Non-sensitizer for skin. Non-permeator by skin. Non-irritating to the eyes. Non-hazardous in case of ingestion. Non-hazardous in case of inhalation.
CARCINOGENIC EFFECTS: Classified A1 (confirmed for human.) by ACGIH, + (PROVEN) by OSHA
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 organ 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 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. Do not use eye ointment. Seek medical attention.

Skin Contact
If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash the contaminated clothing before reusing.

Serious Skin Contact
Wash with a disinfectant soap and cover the contaminated skin with a anti-bacterial cream. Seek immediate medical attention.

Inhalation
Allow the victim to rest in a well ventilated area. Seek 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. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. 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.

Serious Ingestion
Not available.

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 available.

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.
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 available.

Special Remarks on Explosion 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.

Large Spill	Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage

Precautions	Keep locked up. Keep container dry. Do not ingest. Do not breathe gas/fumes/vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or label. Avoid contact with skin and eyes.
Storage	Corrosive materials should be stored in a separate storage cabinet or room.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value(TLV). Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. boots.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	CHROMIC ACID: TWA: 0.05 (mg/m^3) from ACGIH(TLV) Consult local authorities for acceptable exposure limits. TWA: 1 CEIL: 1 (mg/m^3) from OSHA (PEL)

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Volatility	Not available.
Molecular Weight	Not applicable.	Odor Threshold	Not available.
pH (1% Solution in Water)	Neutral	Water/Oil Dist. Coeff.	Not available.
Boiling Point	The lowest known value is: 100^0C (212^0F) (Water)	Ionicity (in Water)	Not available.
Melting Point	Not available.	Dispersion Properties	See solubility in water.
Critical Temperature	Not available.	Solubility	Easily soluble in cold water.
Specific Gravity	Weighted average 1.07 (Water=1)	Odor	Not available.
Vapor Pressure	The highest know value is: 17.535 mm of Hg (@20^0C	Taste	Not available.
Vapor Density	The highest known value is: 0.62 (Air=1) (Water)	Color	Not available.

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Not available.
Corrosivity	Non-corrosive in presence of glass.

Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	No.

Section 11. Toxicological Information

Route of Entry	Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 800 mg/kg (Rat) (Calculated value for the mixture).
Chronic Effects on Humans	CARCINOGENIC: Classified A1 (Confirmed for human.) by ACGIH + (PROVEN) by OSHA The substance is toxic to lungs, mucous membranes.
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant), of ingestion. Hazardous in case of skin contact (corrosive), 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 as toxic as the original product.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal

Section 14. Transport Information

DOT Classification	CLASS 8: Corrosive liquid.
Identification	Chromic acid, solution : UN1755 PG:II
Special Provisions for Transport	Not available.

DOT (Pictograms)

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Chromic acid. Pennsylvania RTK: Chromic acid. Florida: Chromic acid.

Federal and State Regulations cont...

Minnesota: Chromic acid
Massachusetts RTK: Chromic acid.
New Jersey: Chromic acid.
TSCA 8(b) inventory: Chromic acid; water.
SARA 302/304/311/312 extremely hazardous substances: Chromic acid.
SARA 313 toxic chemical notification and release reporting: Chromic acid.
CERCLA: Hazardous substances: Chromic acid.

California Proposition 65 Warnings

California prop. 65. This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Chromic acid.

Other Regulations

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

Other Classifications

WHMIS (Canada)

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

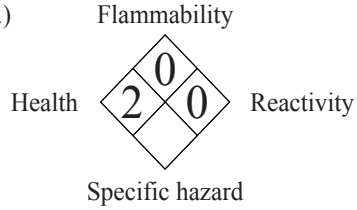
DSCL (EEC)

R22- Harmful if swallowed.
R35- Causes severe burns.
R45- May cause cancer.

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	0
Reactivity	0

National Fire Protection Association (U.S.A.)



WHMIS (Canada) (Pictograms)

DSCL (Europe) (Pictograms)

TDG (Canada) (Pictograms)

ADR (Europe) (Pictograms)

Protective Equipment

Gloves. Full suit. Vapor respirator. Face shield

Section 16. Other Information

Catalog Number(s) RE2138

References Not available.

Other Special Considerations Not available.

Validated by R. Turkington

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.