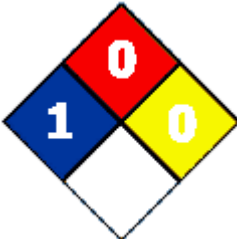




Material Safety Data Sheet # 317

Hercules Chemical Company Inc.
111 South Street
Passaic NJ 07055-7398
Information Telephone: 1-800 221-9330
Internet: www.herchem.com

NFPA	HMIS	PPE	Transport Symbol						
	<table><tr><td>Health Hazard</td><td>1</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health Hazard	1	Fire Hazard	0	Reactivity	0	 	
Health Hazard	1								
Fire Hazard	0								
Reactivity	0								

Issuing Date 26-Jul-2006

Revision Date

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Hercules Flip Stick

UN-No UN3077

Recommended Use Creosote remover

Supplier Address

Hercules Chemical Company, Inc.
111 South St.
Passaic, NJ 07055
TEL: 973-778-5000

Company Emergency Phone Number 1-800-221-9330

Emergency Telephone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

CAUTION!

Emergency Overview

May cause skin, eye, and respiratory tract irritation.

Appearance Blue green

Physical State Crystalline Powder

Odor Odorless

Potential Health Effects

Principle Routes of Exposure Ingestion, Skin contact.

Acute Toxicity

Eyes

May cause irritation.

Skin

May cause irritation.

Inhalation

May cause irritation.

Ingestion

May cause irritation.

Chronic Effects

No known effect.

Aggravated Medical Conditions

Preexisting eye disorders. Skin disorders.

Environmental Hazard

See Section 12 for additional Ecological information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Cupric chloride	7447-39-4	5-10
Cellulose	9004-34-6	5-10

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash skin with soap and water.

Inhalation Move to fresh air.

Ingestion Clean mouth with water and afterwards drink plenty of water.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable
Flash Point	No data available
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal.
Unsuitable Extinguishing Media	Do not scatter spilled material with high pressure water streams.
Explosion Data	
Sensitivity to mechanical impact	Not sensitive
Sensitivity to static discharge	Not sensitive

Specific Hazards Arising from the Chemical

Some may burn but none ignite readily. Those substances designated with a "P" may polymerize explosively when heated or involved in a fire. Some may be transported hot.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA	Health Hazard 1	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 0	Stability 0	Personal Precautions B

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Methods for Containment	Prevent dust cloud.
Methods for Cleaning Up	With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Cupric chloride		TWA: 0.1 mg/m ³	100 mg/m ³ dust, fume and mist
Cellulose	TWA: 10 mg/m ³	TWA: 15 mg/m ³	

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment**Eye/face Protection**

Safety glasses with side-shields.

Skin and body protection

Protective gloves.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue green	Odor	Odorless
Physical State	Crystalline Powder	pH	No information available
Autoignition Temperature	Not applicable	Boiling Point/Range	No data available
Melting Point/Range	No data available		
Flammability Limits in Air	No data available		
Specific Gravity	0.95-1.0	Water Solubility	Partly soluble
Solubility	No data available	VOC Content	Not applicable

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Avoid dust formation.
Incompatible Products	None known.
Hazardous Decomposition Products	None known.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cupric chloride	584 mg/kg (Rat)		
Cellulose	5 g/kg (Rat)	2 g/kg (Rabbit)	5800 mg/m ³ (Rat) 4 h

Subchronic Toxicity (28 days)**Chronic Toxicity****Chronic Toxicity**

No known effect.

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Mutagenicity**Reproductive Toxicity**

This product does not contain any known or suspected reproductive hazards.

Target Organ Effects

Eyes, Respiratory system, Skin.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a severe marine pollutant according to DOT

**Ecotoxicity**

Ecotoxicity effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Cupric chloride				EC50 = 10 µg/L 96 h EC50 = 200 µg/L 96 h

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of in accordance with local regulations

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Cupric chloride	Toxic

14. TRANSPORT INFORMATION**DOT**

Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s.
Hazard Class	9
UN-No	UN3077
Packing Group	III
Reportable Quantity (RQ)	Cupric chloride, RQ kg = 75.66666
Marine Pollutant	This product contains a chemical which is listed as a severe marine pollutant according to DOT.
Description	Environmentally hazardous substances, solid, n.o.s.(Cupric chloride),9,UN3077,PG III, Marine Pollutant, RQ

TDG

Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s.
Hazard Class	9
UN-No	UN3077
Packing Group	III
Description	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Cupric chloride),9,UN3077,PG III

MEX

Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s.
Hazard Class	9
UN-No	UN3077
Packing Group	III
Description	UN3077 Environmentally hazardous substance, solid, n.o.s.(Cupric chloride),9,III

ICAO

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

International Inventories

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Cupric chloride	7447-39-4	5-10	10

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Cupric chloride	10 lb	X	X	X

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Cupric chloride	10 lb	

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Cupric chloride	X	X	X	X	X
Cellulose	X		X		X

International Regulations

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
Non-controlled

16. OTHER INFORMATION

Issuing Date 26-Jul-2006

Revision Date

Revision Note No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS