

Safety Data Sheet

Supersedes Date Not applicable

Issuing Date 07/21/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name X-Chem C-139
Recommended use Corrosion inhibitor
Information on Manufacturer
X-Chem, LLC
Corporate Headquarters:
2727 Chemsearch Blvd.
Irving, TX 75062

Product Code XCC139
Chemical nature Mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
(800) 527-9919

2. HAZARD IDENTIFICATION

Color Brown

Physical state Liquid

Odor Slight sweet

GHS

Classification

Physical Hazards

Health Hazard

Germ cell mutagenicity
Carcinogenicity
Specific target organ systemic toxicity (single exposure)
Specific target organ toxicity (repeated exposure)

Category 1B
Category 1B
Category 2
Category 2

Other hazards

None

Labeling

Signal Word

DANGER



Hazard statements

H340 - May cause genetic defects
H350 - May cause cancer
H371 - May cause damage to organs
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

P201 - Obtain special instructions before use
P260 - Do not breathe fumes, vapors, gases, sprays, dust
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, protective clothing and eye protection.
P202 - Do not handle until all safety precautions have been read and understood
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313 - IF exposed or concerned, get medical attention
P405 - Store locked up
P501 - Dispose of contents and container to an approved waste disposal plant.

No information available

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
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WATER	7732-18-5	60-100
ETHYLENE GLYCOL	107-21-1	5-15
Benzyl alkyl pyridinyl quaternary ammonium chloride	68909-18-2	1-10
Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates	68130-47-2	1-5
METHANOL	67-56-1	1-3
Nonylphenol polyethylene glycol ether	127087-87-0	0.1-1
Pyridine, alkyl derivatives	68391-11-7	0.1-1
Methyldiethanolamine	105-59-9	0.1-1
Ethanol, 2-[[[2-(dimethylamino)ethoxy]ethyl]methylamino]-	83016-70-0	0.1-1
DIMETHYL POLY SILOXANE	63148-62-9	0.1-1
Dimethylaminoethoxyethanol	1704-62-7	0.1-1
BIS(DIMETHYLAMINOETHYL) ETHER	3033-62-3	0.1-1
2-DIMETHYLAMINOETHANOL	108-01-0	0.1-1
Monoethanolamine Hydrochloride	2002-24-6	<0.1
n-butyl morpholine	1005-67-0	<0.1
POLYETHYLENE GLYCOL	25322-68-3	<0.1
Dinonylphenyl Polyoxyethylene	9014-93-1	<0.1

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General advice	Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, or gas.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact	Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
Inhalation	If inhaled, remove to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention if symptoms occur.
Ingestion	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink 1 or 2 glasses of water. Call a physician or poison control center immediately. Get medical attention immediately.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 205 °F / 96 °C

Upper: 15.3

Suitable Extinguishing Media

Water spray. Foam. Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Material can create slippery conditions.

Protective Equipment and Precautions for Firefighters

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

NFPA Health 2

Flammability 1

Instability 0

HMIS Health 2

Flammability 1

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas.			
Storage	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.			
Storage Temperature	Minimum	No information available	Maximum	No information available
Storage Conditions	Indoor	X	Outdoor	X
			Heated	
			Refrigerated	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
ETHYLENE GLYCOL	Ceiling: 100 mg/m ³	No data available	No data available
METHANOL	TWA: 200 ppm Skin STEL: 250 ppm	TWA: 200 ppm TWA: 260 mg/m ³	6000 ppm STEL 250 ppm STEL 325 mg/m ³ TWA: 200 ppm TWA: 260 mg/m ³
BIS(DIMETHYLAMINOETHYL) ETHER	TWA: 0.05 ppm Skin STEL: 0.15 ppm	No data available	No data available

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles. Face-shield.
Skin Protection	For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.
Respiratory Protection	In case of insufficient ventilation wear suitable respiratory equipment.
General Hygiene Considerations	Ensure that eyewash stations and safety showers are close to the workstation location. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Viscosity	Non viscous
Color	Brown	Odor	Slight sweet
Odor Threshold	Not applicable	Appearance	Clear
pH	5.5	Specific Gravity	1.02
Evaporation Rate	1 (water = 1)	Percent Volatile (Volume)	No information available
VOC Content (%)	No information available.	Vapor Pressure	Similar to water
Vapor Density	1 (Air=1)	Solubility	Completely soluble
n-Octanol/Water Partition	No data available	Melting Point/Range	No data available
Decomposition Temperature	No data available	Boiling Point/Range	210 °F / 99 °C
Flammability (solid, gas)	No data available	Method	Tag closed cup
Flash Point	205 °F / 96 °C		
Autoignition Temperature	No information available.		
Upper: 15.3 Lower: 3.2			

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Heat, flames, and sparks, Extremes of temperature and direct sunlight.
Incompatible Products	Strong oxidizing agents.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Hydrocarbons, Ammonia, Sulfur compounds.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 No information available
Dermal LD50 No information available
Inhalation LC50
Gas No information available
Mist No information available
Vapor No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.
Primary Routes of Entry None known.

Acute Effects:

Eyes May cause eye irritation.
Skin May cause skin irritation.
Inhalation May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Toxicity No information available.

Target Organ Effects Central nervous system, Gastrointestinal tract, Respiratory system.

Aggravated Medical Conditions Skin disorders, Respiratory disorders, Central nervous system.

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
WATER 7732-18-5	> 90 mL/kg (Rat)	no data available	No data available	No data available	No data available
ETHYLENE GLYCOL 107-21-1	300 - < 2000 mg/kg (Rat)	= 10600 mg/kg (Rat)	No data available	No data available	No data available
METHANOL 67-56-1	5628 mg/kg (rat)	15800 mg/kg (rabbit)	64000 ppm (rat) 4 h	No data available	No data available
Nonylphenol polyethylene glycol ether 127087-87-0	= 1310 mg/kg (Rat)	= 1780 µL/kg (Rabbit)	No data available	No data available	No data available
BIS(DIMETHYLAMINOETHYL) ETHER 3033-62-3	= 910 mg/kg (Rat)	= 238 mg/kg (Rabbit)	= 117 ppm (Rat) 6 h	No data available	No data available
2-DIMETHYLAMINOETHANOL 108-01-0	= 1803 mg/kg (Rat)	= 1220 mg/kg (Rabbit)	= 1641 ppm (Rat) 4 h	No data available	No data available
POLYETHYLENE GLYCOL 25322-68-3	No data available	> 20 mL/kg (Rabbit)	No data available	No data available	No data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
ETHYLENE GLYCOL 107-21-1	No data available	No data available	No data available	No data available	Skin Central nervous system Eyes Respiratory system
METHANOL 67-56-1	No data available	No data available	X	No data available	Gastrointestinal tract Skin Central nervous system Eyes Respiratory system
BIS(DIMETHYLAMINOETHYL) ETHER 3033-62-3	No data available	No data available	No data available	No data available	Urinary Tract Skin Eyes

Carcinogenicity There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient

ETHYLENE GLYCOL	EC50 6500 - 13000 mg/L Pseudokirchneriella subcapitata 96 h	LC50 14 - 18 mL/L Oncorhynchus mykiss 96 h LC50 40000 - 60000 mg/L Pimephales promelas 96 h LC50 = 16000 mg/L Poecilia reticulata 96 h LC50 = 27540 mg/L Lepomis macrochirus 96 h LC50 = 40761 mg/L Oncorhynchus mykiss 96 h LC50 = 41000 mg/L Oncorhynchus mykiss 96 h	No information available	= 46300 mg/L 48 h	-1.93
METHANOL	EC50 22000 mg/l Pseudokirchnerella subcapitata 96h	LC50 28500 mg/l Pimephales sp. 96h LC50 19000 mg/l Oncorhynchus mykiss 96h	No information available	EC50 >10000 mg/l Daphnia magna 48h	-0.77
Methyldiethanolamine	EC50 = 37 mg/L Desmodesmus subspicatus 72 h EC50 = 20 mg/L Desmodesmus subspicatus 96 h	LC50 > 1000 mg/L Pimephales promelas 96 h	EC50 = 410 mg/L 17 h	230: 48 h Daphnia magna mg/L EC50	-1.08
2-DIMETHYLAMINOETHANOL	EC50 = 35 mg/L Desmodesmus subspicatus 72 h	LC50 = 81 mg/L Pimephales promelas 96 h	No information available	98.77: 48 h Daphnia magna mg/L EC50	-0.55

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated
Reportable Quantity (RQ) 3,918 gallons (Ethylene Glycol)
Special Provisions If above reportable quantity, then description is: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, n.o.s., (Ethylene Glycol), 9, PG III RQ

TDG Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

Inventories
TSCA Complies
DSL Does not Comply

U.S. Federal Regulations SARA 313

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:

Component	CAS No.	Weight %	SARA 313 - Threshold Values
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ETHYLENE GLYCOL	107-21-1	5-15	1.0
METHANOL	67-56-1	1-3	1.0

SARA 311/312 Hazardous Categorization

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

CERCLA None

Component	Hazardous Substances RQs	CERCLA EHS RQs
ETHYLENE GLYCOL	5000 lb	Not applicable
METHANOL	5000 lb	Not applicable

U.S. State Regulations

California Proposition 65 This product contains the following Proposition 65 chemicals:

Component	CAS No.	California Prop. 65
METHANOL	67-56-1	developmental toxicity

16. OTHER INFORMATION

Prepared By	Chris Swindle
Supersedes Date	Not applicable
Issuing Date	07/21/2016
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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