

Safety Data Sheet: CHEM-AQUA 87640

Supersedes Date 08/27/2012

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHEM-AQUA 87640
Recommended use Water treatment chemical
Information on Manufacturer
CHEM-AQUA, INC
BOX 152170
IRVING, TEXAS 75015

Product Code 0C63
Chemical nature Aqueous solution Organic and Sulfur compounds
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Amber

Physical State Liquid

Odor Slightly Sulfurous

GHS

Classification

Physical Hazards

Substances/mixtures corrosive to metal

Category 1

Health Hazard

Skin Corrosion/Irritation

Category 1

Serious Eye Damage/Eye Irritation

Category 1

Reproductive Toxicity

Category 2

Other hazards

None

Labeling

Signal Word

DANGER



Hazard Statements

H314 - Causes severe skin burns and eye damage

H361 - Suspected of damaging fertility or the unborn child

H290 - May be corrosive to metals

Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P280 - Wear protective gloves, protective clothing, eye protection and face protection.

P260 - Do not breathe mist.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower

P332 + P313 - If skin irritation occurs, get medical attention.

P363 - Wash contaminated clothing before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a physician

P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms, call a physician

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.

P406 - Store in a corrosion-resistant container.

P390 - Absorb spillage to prevent damage

P501 - Dispose of contents and container in accordance with applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Sodium dimethyldithiocarbamate	128-04-1	30-60

4. FIRST AID MEASURES

General advice	Do not get in eyes, on skin or on clothing. Do not breathe mist.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
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 immediately.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician	The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

Flash Point	> 201 °F / > 94 °C	Method	Pensky Marten Closed Tester
Flammability Limits in Air % Hydrogen, by reaction with metals.		Upper 75	Lower 4
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO ₂). Foam. 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. Contact with metals may evolve flammable hydrogen gas.		
Protective Equipments 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 3	Flammability 1	Instability 0
HMIS	Health 3	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	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)
Neutralizing Agent	Acetic acid, diluted.

7. HANDLING AND STORAGE

Handling	Do not get in eyes, on skin or on clothing. Do not breathe mist.			
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. Metal containers must be lined.			
Storage Temperature	Minimum	35 °F / 2 °C	Maximum	140 °F / 60 °C
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Component	ACGIH TLV	OSHA PEL	NIOSH
Sodium dimethyldithiocarbamate	No data available	No data available	No data available

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles. Face-shield.
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection.
General Hygiene Considerations	Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
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Color	Amber	Odor	Slightly Sulfurous
Odor Threshold	Not applicable	Appearance	Hazy
pH	12.4	Specific Gravity	1.18
Evaporation Rate	<1 (Butyl acetate=1)	Percent Volatile (Volume)	60
VOC Content (%)	0	VOC Content (g/L)	0
Vapor Pressure	13 mmHg @ 70°F	Vapor Density	<1 (Air = 1.0)
Solubility	Completely soluble	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	> 212 °F / 100 °C	Flammability (solid, gas)	No data available
Flash Point	> 201 °F / > 94 °C	Method	Pensky Marten Closed Tester
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Hydrogen, by reaction with metals. Upper 75 Lower 4		

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	None known
Incompatible Products	Strong oxidizing agents, Acids, Metals.
Hazardous Decomposition Products	Amines, Hydrogen sulfide, Sulfides.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

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 Ingestion

Acute Effects

Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes skin irritation.
Inhalation	Harmful by inhalation. Causes burns.
Ingestion	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Chronic Toxicity

Contains a known or suspected reproductive toxin. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Target Organ Effects

Reproductive System

Aggravated Medical Conditions

Skin disorders, Respiratory disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Sodium dimethyldithiocarbamate	= 1 g/kg (Rat)	> 5000 mg/kg (Rat)	no data available	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium dimethyldithiocarbamate	no data available	no data available	X	no data available	no data available

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Sodium dimethyldithiocarbamate	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Sodium dimethyldithiocarbamate	EC50 = 0.8 mg/L Chlorella pyrenoidosa 96 h	LC50 2.1 - 3.2 mg/L Poecilia reticulata 96 h LC50 29 - 56 mg/L Lepomis macrochirus 96 h LC50 3.7 - 11.4 mg/L Oncorhynchus mykiss 96 h	EC50 = 0.51 mg/L 15 min	0.2: 48 h Daphnia magna mg/L EC50	N/A

		LC50 = 1.7 mg/L Oncorhynchus mykiss 96 h LC50 = 3.44 mg/L Lepomis macrochirus 96 h			
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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
Proper Shipping Name Corrosive liquid, basic, organic, n.o.s.
Hazard Class 8
UN-No UN3267
Packing Group II
Description UN3267, Corrosive liquid, basic, organic, n.o.s.,(Sodium dimethyldithiocarbamate), 8, PG II

TDG
Hazard Class 8
UN-No UN3267
Packing Group II

ICAO
UN-No UN3267
Proper Shipping Name Corrosive liquid, basic, organic, n.o.s.
Hazard Class 8
Packing Group II
Shipping Description UN3267, Corrosive liquid, basic, organic, n.o.s.,(Sodium dimethyldithiocarbamate), 8, PG II

IATA
UN-No UN3267
Proper Shipping Name Corrosive liquid, basic, organic, n.o.s.
Hazard Class 8
Packing Group II
Shipping Description UN3267, Corrosive liquid, basic, organic, n.o.s.,(Sodium dimethyldithiocarbamate), 8, PG II

IMDG/IMO
Proper Shipping Name Corrosive liquid, basic, organic, n.o.s.
Hazard Class 8
UN-No UN3267
Packing Group III
Shipping Description UN3267, Corrosive liquid, basic, organic, n.o.s.,(Sodium dimethyldithiocarbamate), 8, PG II

15. REGULATORY INFORMATION

Inventories
TSCA Complies
DSL Complies

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
Sodium dimethyldithiocarbamate	128-04-1	30-60	1.0

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs

Sodium dimethyldithiocarbamate	Not applicable	Not applicable
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16. OTHER INFORMATION

Prepared By Adrienne McKee
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Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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