

Safety Data Sheet: CERTIFIED 9000MT

Supersedes Date 07/29/2010

Issuing Date 08/01/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CERTIFIED 9000MT
Recommended use Water treatment chemical
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 749C
Chemical nature Aqueous solution
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Yellow - Amber

Physical State Liquid

Odor Slight Sweet

GHS

Classification

Physical Hazards

Substances/mixtures corrosive to metal

Category 1

Health Hazard

Acute Dermal Toxicity

Category 3

Skin Corrosion/Irritation

Category 1

Serious Eye Damage/Eye Irritation

Category 1

Respiratory Sensitization

Category 1

Skin Sensitization

Category 1

Reproductive Toxicity

Category 2

Specific target organ systemic toxicity (repeated exposure)

Category 2

Other hazards

None

Labeling

Signal Word

DANGER



Hazard Statements

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H311 - Toxic in contact with skin

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure

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

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

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

P272 - Contaminated work clothing should not be allowed out of the workplace

P260 - Do not breathe mist

P271 - Use in a well-ventilated area.

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

Rinse skin with water or shower

P333 + P313 - If skin irritation or rash 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.

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P406 - Store in a corrosion resistant container.

P390 - Absorb spillage to prevent damage

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

6 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Potassium salt of acrylate terpolymer	154336-22-8	1-5
Phosphono-acetic acid, potassium salt	129836-13-1	1-5
Potassium salt of polymaleic acid	128551-35-9	1-5
Sodium molybdate dihydrate	10102-40-6	0.1-1
Potassium hydroxide	1310-58-3	0.1-1

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	Move 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. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point	> 201 °F / > 94 °C	Method	Seta closed cup
Flammability Limits in Air % Hydrogen, by reaction with metals.		Upper	75
		Lower	4
Suitable Extinguishing Media	Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Specific hazards arising from the chemical	Contact with metals liberates flammable hydrogen gas. Material can create slippery conditions.		
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 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. Metal containers must be lined. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.			
Storage Temperature	Minimum	35 °F / 2 °C	Maximum	120 °F / 49 °C
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Potassium salt of acrylate terpolymer	No data available	No data available	No data available
Phosphono-acetic acid, potassium salt	No data available	No data available	No data available
Potassium salt of polymaleic acid	No data available	No data available	No data available
Sodium molybdate dihydrate	TWA: 0.5 mg/m ³	TWA: 5 mg/m ³	IDLH: 1000 mg/m ³
Potassium hydroxide	Ceiling: 2 mg/m ³	No data available	Ceiling: 2 mg/m ³

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. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Non viscous
Color	Yellow - Amber	Odor	Slight Sweet
Odor Threshold	Not applicable	Appearance	Transparent
pH	12.7	Specific Gravity	1.073
Evaporation Rate	0.54 (Butyl acetate=1)	Percent Volatile (Volume)	92.5
VOC Content (%)	0.8	VOC Content (g/L)	8
Vapor Pressure	16.2 mmHg @ 70°F	Vapor Density	0.6 (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	Seta closed cup
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, Reducing agents, Acids, Metals, Aldehydes, Acid anhydrides, Highly halogenated compounds, Tetrahydrofuran.
Hazardous Decomposition Products	Carbon oxides, Oxides of phosphorus, Phosphorus compounds, Hydrogen, by reaction with metals.
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	Inhalation, Skin Absorption, Ingestion.

Acute Effects

Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes skin burns. May cause allergic skin reaction.
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

Inhaled corrosive substances can lead to a toxic edema of the lungs. Liver and kidney injuries may occur. May cause sensitization by skin contact.

Target Organ Effects

Liver, Kidney, Immune system, Respiratory system, Blood, Bone, Teeth.

Aggravated Medical Conditions

Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Neurological disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Potassium salt of acrylate terpolymer	no data available				
Phosphono-acetic acid, potassium salt	no data available				
Potassium salt of polymaleic	no data available				

acid					
Sodium molybdate dihydrate	no data available	no data available	no data available	no data available	no data available
Potassium hydroxide	= 214 mg/kg (Rat)	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Potassium salt of acrylate terpolymer	no data available	no data available	no data available	no data available	no data available
Phosphono-acetic acid, potassium salt	no data available	Skin sensitization	no data available	no data available	Immune system
Potassium salt of polymaleic acid	no data available	no data available	no data available	no data available	no data available
Sodium molybdate dihydrate	no data available	no data available	no data available	no data available	respiratory system, eyes, liver, kidneys, blood, bones, joints, teeth
Potassium hydroxide	no data available	no data available	no data available	no data available	eyes, respiratory system, skin

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Potassium salt of acrylate terpolymer	not applicable				
Phosphono-acetic acid, potassium salt	not applicable				
Potassium salt of polymaleic acid	not applicable				
Sodium molybdate dihydrate	A3	not applicable	not applicable	not applicable	not applicable
Potassium hydroxide	not applicable				

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Potassium salt of acrylate terpolymer	no data available	no data available	no data available	no data available	N/A
Phosphono-acetic acid, potassium salt	no data available	no data available	no data available	no data available	N/A
Potassium salt of polymaleic acid	no data available	no data available	no data available	no data available	N/A
Sodium molybdate dihydrate	no data available	no data available	no data available	no data available	N/A
Potassium hydroxide	no data available	LC50 = 80 mg/L <i>Gambusia affinis</i> 96 h	no data available	no data available	0.65 0.83

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, n.o.s.
Hazard Class 8
UN-No UN1760
Packing Group III
Description UN1760, Corrosive liquids, n.o.s.,(Potassium hydroxide), 8, PG III

TDG

Hazard Class 8
UN-No UN1760
Packing Group III

ICAO

UN-No UN1760
Proper Shipping Name Corrosive liquid, n.o.s.
Hazard Class 8
Packing Group III
Shipping Description UN1760, Corrosive liquids, n.o.s.,(Potassium hydroxide), 8, PG III

IATA

UN-No UN1760
Proper Shipping Name Corrosive liquid, n.o.s.
Hazard Class 8
Packing Group III
ERG Code 8L
Shipping Description UN1760, Corrosive liquids, n.o.s.,(Potassium hydroxide), 8, PG III

IMDG/IMO

Proper Shipping Name Corrosive liquid, n.o.s.
Hazard Class 8
UN-No UN1760
Packing Group III
EmS No. F-A, S-B
Shipping Description UN1760, Corrosive liquids, n.o.s.,(Potassium hydroxide), 8, PG III

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 does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40 of the Code of Federal Regulations, Part 372.

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
Potassium salt of acrylate terpolymer	Not applicable	Not applicable
Phosphono-acetic acid, potassium salt	Not applicable	Not applicable
Potassium salt of polymaleic acid	Not applicable	Not applicable
Sodium molybdate dihydrate	Not applicable	Not applicable
Potassium hydroxide	1000 lb	Not applicable

16. OTHER INFORMATION

Prepared By Adrienne McKee
Supersedes Date 07/29/2010
Issuing Date 08/01/2013
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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