

Safety Data Sheet: CHECK-MARK 40224, CM

Supersedes Date: 06/05/2013

Issuing Date: 01/13/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CHECK-MARK 40224, CM
Recommended use Biocidal product
Information on Manufacturer
CHEM-AQUA
253 ORENDA ROAD
BRAMPTON ONT L6T 1E6

Product Code: 443C
Chemical nature Aqueous solution
Emergency Telephone
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless - Amber

Physical state Liquid

Odor chlorine like

GHS

Classification

Physical Hazards

None

Health Hazard

Acute Oral Toxicity
Serious Eye Damage/Eye Irritation
Skin sensitization

Category 4

Category 1

Category 1

Other hazards

None

Labeling

Signal Word

DANGER



Hazard statements

H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H302 - Harmful if swallowed

Precautionary Statements

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
P261 - Avoid breathing mist
P270 - Do not eat, drink or smoke when using this product
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
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.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P501 - Dispose of contents and container in accordance with applicable regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Dipropylene Glycol	25265-71-8	30-60
2,2-Dibromo-3-nitrilopropionamide	10222-01-2	10-30

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

4. FIRST AID MEASURES

General advice

Do not get in eyes, on skin or on clothing. Do not breathe mist.

Eye Contact

If in eyes, rinse with water for 15 minutes. Remove contact lenses. Call a physician or poison control center immediately.

Skin Contact	Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least least 15 minutes. Call a physician or poison control center immediately.
Inhalation	No hazards which require special first aid measures.
Ingestion	Call a physician or poison control center immediately. Give small amounts of water to drink. Do not induce vomiting without medical advice. 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

Carbon dioxide (CO₂). Dry chemical. Water spray. Foam. 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, NOHSC (approved or equivalent) and full protective gear.

NFPA	Health 3	Flammability 1	Instability 0
HMIS -	Health 3	Flammability 1	Physical Hazard 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	Pick up and transfer to properly labeled containers.
Neutralizing Agent	Neutralize with lime milk or soda and flush with plenty of water.

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.			
Storage Temperature	Minimum	45 °F / 7 °C	Maximum	100 °F / 38 °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.
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	Colorless - Amber	Odor	chlorine like
Odor Threshold	Not applicable	Appearance	Transparent
pH	2	Specific Gravity	1.25
Evaporation Rate	< 1 (Butyl acetate=1)	Percent Volatile (Volume)	0
VOC Content (%)	0	VOC Content (g/L)	0
Vapor pressure	17 mmHg @ 68°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	> 158 °F / > 70 °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	Heat, flames, and sparks, Keep away from open flames, hot surfaces, and sources of ignition.
Incompatible Products	Strong oxidizing agents, Reducing agents, Bases, Metals.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Bromine, Fumes of bromine, Hydrogen bromide.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

LD50 Oral No information available	LD50 Dermal No information available	LC50 Inhalation No information available
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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 Skin Absorption.

Acute Effects:

Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	May cause allergic skin reaction. May be absorbed through the skin in harmful amounts.
Inhalation	Low hazard for usual industrial or commercial handling.
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

Target Organ Effects: Inhaled corrosive substances can lead to a toxic edema of the lungs.

Aggravated Medical Conditions: Immune system.

Respiratory disorders, Skin disorders.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Dipropylene Glycol 25265-71-8	= 14850 mg/kg (Rat)	> 20 mL/kg (Rabbit)	No data available	No data available	No data available
2,2-Dibromo-3-nitropropionamide 10222-01-2	= 178 mg/kg (Rat) = 23 235 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 0.32 mg/L (Rat) 4 h	No data available	No data available

Chronic Toxicity

Chemical name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
2,2-Dibromo-3-nitropropionamide 10222-01-2	No data available	skin sensitization	No data available	No data available	No data available

Carcinogenicity

There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information

Toxicity to fish Colinus virginianus (Bobwhite quail) 2.3 mg/L 96h
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Additional Ecological Information: No information available

Component Information

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Dipropylene Glycol	No information available.	LC50 > 5000 mg/L Carassius auratus 24 h	EC50 = 10000 mg/L 16 h	No information available.	N/A

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

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of contents/container in accordance with local regulation.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Not regulated
TDG Not regulated
ICAO Not regulated
IATA Not regulated
IMDG/IMO Not regulated

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 Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

See Section 2

CERCLA

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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