

Safety Data Sheet: CHECK-MARK 40224, CM

Supersedes Date: 08/29/2017

Issuing Date: 09/03/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CHECK-MARK 40224, CM
Recommended use Biocidal product
Information on Manufacturer
CHEMSEARCH FE DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code: C807
Chemical nature Aqueous solution
Emergency Telephone
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless - Red - Brown

Physical state Liquid

Odor Odorless - Mild

GHS

Classification

Physical Hazards

None

Health Hazard

Acute Oral Toxicity
Acute toxicity - Inhalation (Dusts/Mists)
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Skin sensitization

Category 4
Category 4
Category 1
Category 1
Category 1

Other hazards

None

Labeling

Signal Word

DANGER



Hazard statements

H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H332 - Harmful if inhaled
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
P260 - Do not breathe mist
P271 - Use in a well-ventilated area.
P270 - Do not eat, drink or smoke when using this product
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P333 - 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 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.
P501 - Dispose of contents and container in accordance with applicable regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Polyethylene glycol	25322-68-3	45-70
2,2-Dibromo-3-nitropropionamide	10222-01-2	10-30

Sodium bromide	7647-15-6	3-7
Dibromoacetonitrile	3252-43-5	0.1-1.0

*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 vapors or spray 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. Call a physician or poison control center 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	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 > 360 °F / > 182 °C	Method Cleveland Open cup
Flammability Limits in Air %: Mixture.	Upper: 75 Lower: 4
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO ₂). Foam. Alcohol-resistant 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.
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. Ensure adequate ventilation. 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	Attempt to neutralize by adding materials such as Sodium bisulphite.

7. HANDLING AND STORAGE

Handling	Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray 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	95 °F / 35 °C
Storage Conditions	Indoor	X	Outdoor	Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
2,2-Dibromo-3-nitropropionamide	C, 5mg/m ³ , Cianeto	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Viscosity	Non viscous
Color	Colorless - Red - Brown	Odor	Odorless - Mild
Odor Threshold	Not applicable	Appearance	Transparent
pH	1.5	Specific Gravity	1.25
Evaporation Rate	No data available	Percent Volatile (Volume)	>87.3
VOC Content (%)	9.7	VOC Content (g/L)	121.25
Vapor pressure	18.9 mmHg @ 70°F	Vapor Density	No information available
Solubility	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	> 360 °F / > 182 °C	Method	Cleveland Open cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Mixture	Upper: 75 Lower: 4	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Heat, flames, and sparks.
Incompatible Products	Oxidizing agents, Strong bases, Metals, Aluminium.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Bromine, cyanogen bromide, dibromoacetonitrile, Nitrogen oxides (NOx), Hydrogen bromide.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral 510 mg/kg Rat	LD50 Dermal >2000 mg/kg Rabbit	LC50 Inhalation 1.25 mg/L 4 h, Aerosol Rat, Female
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The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50	510
Dermal LD50	> 2000
Inhalation LC50	
Gas	No information available
Mist	1.25
Vapor	No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

Primary Routes of Entry None known.

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. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Ingestion	Harmful if swallowed. 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. May cause sensitization by skin contact. Contains a known or suspected carcinogen.

Target Organ Effects: No information available.

Aggravated Medical Conditions No information available.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Polyethylene glycol 25322-68-3	22000 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) = 235 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 0.32 mg/L (Rat) 4 h	No data available	No data available
Sodium bromide 7647-15-6	= 3500 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	No data available	No data available	No data available
Dibromoacetonitrile 3252-43-5	= 245 mg/kg (Rat)	no data available	No data available	No data available	No data available

Chronic Toxicity

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

10222-01-2				
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Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA	Other
Dibromoacetone 3252-43-5	Not applicable	Group 2B	Not applicable	X	Not applicable

12. ECOLOGICAL INFORMATION

Product Information Toxic to aquatic organisms

Toxicity to algae	Toxicity to fish	Daphnia magna (Water flea)
ErC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, Growth rate inhibition, 1.5 mg/l	LC50, Oncorhynchus mykiss (rainbow trout) 3.6 mg/L 96h	Aquatic Invertebrate Acute Toxicity EC50, water flea Daphnia magna, static, 48 h, immobilization: 2.5 mg/l

Additional Ecological Information: No information available

Persistence and Degradability Considered to be rapidly degradable.

Component Information

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Polyethylene glycol	No information available.	LC50 > 5000 mg/L Carassius auratus 24 h	EC50 = 100000 mg/L 15 min	No information available.	N/A
2,2-Dibromo-3-nitropropionamide	CE50r, Pseudokirchneriella subcapitata (alga verde), 72h, inibição à taxa de crescimento, 0,50 mg/L	CL50, Oncorhynchus mykiss (truta arco-iris), 96h, 1 mg/L	CE50, lodo ativado, 3,1 mg/L	CE50, Daphnia magna (pulga d'água ou dáfnia), 48h, 0,60 mg/L	0,79
Sodium bromide	EC50 5800 - 24000 mg/L Scenedesmus pannonicus 96 h	LC50 = 24000 mg/L Oryzias latipes 96 h LC50 24000 - 96000 mg/L Oryzias latipes 96 h LC50 15614 - 17428 mg/L Pimephales promelas 96 h LC50 > 1000 mg/L Lepomis macrochirus 96 h LC50 0.054 - 0.081 mg/L Oncorhynchus mykiss 96 h LC50 16000 - 24000 mg/L Poecilia reticulata 96 h LC50 = 16000 mg/L Poecilia reticulata 96 h LC50 > 1000 mg/L Oncorhynchus mykiss 96 h	No information available	5800 - 48000: 48 h Daphnia magna mg/L EC50 5700 - 10800: 48 h Daphnia magna mg/L EC50 Static	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. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency.

Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(2,2-DIBROMO-3-NITRILOPROPIONAMIDE)
Hazard Class 8
UN-No UN3265
Packing Group III
Description UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(2,2-DIBROMO-3-NITRILOPROPIONAMIDE), 8, PG III

TDG

Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(2,2-DIBROMO-3-NITRILOPROPIONAMIDE)
Hazard Class	8
UN-No	UN3265
Packing Group	III
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(2,2-DIBROMO-3-NITRILOPROPIONAMIDE), 8, PG III

ICAO

UN-No	UN3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(2,2-DIBROMO-3-NITRILOPROPIONAMIDE)
Hazard Class	8
Packing Group	III
Shipping Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(2,2-DIBROMO-3-NITRILOPROPIONAMIDE), 8, PG III

IATA

UN-No	UN3265
Proper Shipping Name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(2,2-DIBROMO-3-NITRILOPROPIONAMIDE)
Hazard Class	8
Packing Group	III
ERG-Code	8L
Shipping Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(2,2-DIBROMO-3-NITRILOPROPIONAMIDE), 8, PG III

IMDG/IMO

UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(2,2-DIBROMO-3-NITRILOPROPIONAMIDE)
Hazard Class	8
UN Number	UN3265
Packing Group	III
EmS No.	F-A, S-B
Description	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(2,2-DIBROMO-3-NITRILOPROPIONAMIDE), 8, PG III

15. REGULATORY INFORMATION**Inventories**

TSCA	Complies
DSL	Does not Comply

U.S. Federal Regulations**FIFRA**

This chemical is a pesticide product registered by the US EPA and is subject to certain labeling requirements under federal pesticide laws. These requirements differ from the classification criteria and hazard information required for SDSs, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

DANGER

Corrosive - causes irreversible eye damage
 May be fatal if swallowed
 Causes skin irritation
 Harmful if inhaled or absorbed through skin

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	None
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16. OTHER INFORMATION

Prepared By	Adrienne McKee
Supersedes Date:	08/29/2017
Issuing Date:	09/03/2021
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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