

# Safety Data Sheet: CHECK-MARK 40224, CM

Supersedes Date 04/05/2017

Issuing Date 08/29/2017

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** CHECK-MARK 40224, CM  
**Recommended use** Biocidal product  
**Information on Manufacturer**  
CERTIFIED LABS, DIV. OF NCH CORP.  
BOX 152170  
IRVING, TEXAS 75015

**Product Code** C807  
**Chemical nature** Aqueous solution  
**Emergency Telephone Number**  
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 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.  
P501 - Dispose of contents and container in accordance with applicable local regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
Polyethylene glycol	25322-68-3	40-70

2,2-Dibromo-3-nitrilopropionamide	10222-01-2	10-30
Sodium bromide	7647-15-6	3-7
Dibromoacetoneitrile	3252-43-5	0.1-1.0

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

#### 4. FIRST AID MEASURES

<b>General advice</b>	Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
<b>Ingestion</b>	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.
<b>Notes to physician</b>	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

<b>Flash Point</b>	> 360 °F / > 182 °C	<b>Method</b>	Cleveland Open cup
<b>Flammability Limits in Air %: Mixture.</b>		<b>Upper:</b>	75
<b>Suitable Extinguishing Media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Alcohol-resistant foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	<b>Lower:</b>	4
<b>Specific hazards arising from the chemical</b>	Material can create slippery conditions.		
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
<b>NFPA</b>	<b>Health</b> 3	<b>Flammability</b>	1
<b>HMIS -</b>	<b>Health</b> 3	<b>Flammability</b>	1
		<b>Instability</b>	0
		<b>Instability</b>	0

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
<b>Environmental Precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	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).
<b>Methods for Cleaning Up</b>	Pick up and transfer to properly labeled containers.
<b>Neutralizing Agent</b>	Attempt to neutralize by adding materials such as Sodium bisulphite.

#### 7. HANDLING AND STORAGE

<b>Handling</b>	Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.
<b>Storage</b>	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.
<b>Storage Temperature</b>	<b>Minimum</b> 35 °F / 2 °C
<b>Storage Conditions</b>	<b>Indoor</b> X <b>Outdoor</b> <b>Maximum Heated</b> 95 °F / 35 °C <b>Refrigerated</b>

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Guidelines</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Measures</b>	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.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Tightly fitting safety goggles. Face-shield.
<b>Skin Protection</b>	Wear suitable protective clothing, Impervious gloves.
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection.
<b>General Hygiene Considerations</b>	Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid	<b>Viscosity</b>	Non viscous
<b>Color</b>	Colorless - Red - Brown	<b>Odor</b>	Odorless - Mild
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Transparent
<b>pH</b>	1.5	<b>Specific Gravity</b>	1.25
<b>Evaporation Rate</b>	No data available	<b>Percent Volatile (Volume)</b>	>87.3
<b>VOC Content (%)</b>	9.7	<b>VOC Content (g/L)</b>	121.25
<b>Vapor Pressure</b>	18.9 mmHg @ 70°F	<b>Vapor Density</b>	No information available
<b>Solubility</b>	Soluble	<b>n-Octanol/Water Partition</b>	No data available
<b>Melting Point/Range</b>	No data available	<b>Decomposition Temperature</b>	No data available
<b>Boiling Point/Range</b>	> 158 °F / 70 °C	<b>Flammability (solid, gas)</b>	No data available
<b>Flash Point</b>	> 360 °F / > 182 °C	<b>Method</b>	Cleveland Open cup
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %:</b>	Mixture	<b>Upper: 75 Lower: 4</b>	

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

## Product Information

<b>LD50 Oral</b> 510 mg/kg Rat	<b>LD50 Dermal</b> >2000 mg/kg Rabbit	<b>LC50 Inhalation</b> 1.25 mg/L 4 h, Aerosol Rat, Female
-----------------------------------	--	--

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

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

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

**Primary Routes of Entry** None known.

**Acute Effects:**

<b>Eyes</b>	Corrosive to the eyes and may cause severe damage including blindness.
<b>Skin</b>	Causes skin burns. May cause allergic skin reaction.
<b>Inhalation</b>	Harmful by inhalation. Causes burns. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
<b>Ingestion</b>	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**

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Polyethylene glycol 25322-68-3	No data available	> 20 mL/kg ( Rabbit )	No data available	No data available	No data available
Sodium bromide 7647-15-6	= 3400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	No data available	No data available	No data available

**Chronic Toxicity**

Component	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** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
Dibromoacetonitrile	not applicable	Group 2B	not applicable	X	not applicable

3252-43-5

## 12. ECOLOGICAL INFORMATION

Product Information Toxic to aquatic organisms

<b>Toxicity to algae</b> ErC50, Pseudokirchneriella subcapitata( green algae), 72 Hour, Growth rate inhibition, 1.5 mg/l	<b>Toxicity to fish</b> LC50, Oncorhynchus mykiss (rainbow trout) 3.6 mg/L 96h	<b>Daphnia magna (Water flea)</b> NOEC , Daphnia magna (Water Flea), flow-through test, 21 d, 0.25 mg/l
---	---	--

**Persistence and Degradability** Considered to be rapidly degradable.

Component Information

Component	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
Sodium bromide	EC50 5800 - 24000 mg/L Scenedesmus pannonicus 96 h	LC50 24000 - 96000 mg/L Oryzias latipes 96 h LC50 = 24000 mg/L Oryzias latipes 96 h LC50 16000 - 24000 mg/L Poecilia reticulata 96 h LC50 = 16000 mg/L Poecilia reticulata 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 > 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**

**Proper Shipping Name** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.,(2,2-DIBROMO-3-NITRILOPROPIONAMIDE)  
**Hazard Class** 8  
**UN-No** 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** Complies

**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**

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

**CERCLA**

**16. OTHER INFORMATION**

**Prepared By** Adrienne McKee  
**Supersedes Date** 04/05/2017  
**Issuing Date** 08/29/2017  
**Reason for Revision** No information available.  
**Glossary** No information available.  
**List of References.** No information available.

**CERTIFIED LABS, DIV. OF NCH CORP.** assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this document is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.