

# SAFETY DATA SHEET

Issue Date 30-Apr-2014 Revision Date 21-Oct-2020 Version 2

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name CS-5170

Other means of identification

Product Code 077 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Closed Recirculating SystemDeposit & Corrosion Inhibitor.

Uses advised against No information available

**Manufacturer Address** 

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

Emergency telephone number

Chemtrec 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

#### Label elements

#### **Emergency Overview**

#### Danger

#### Hazard statements

Causes severe skin burns and eye damage



Appearance aqueous solution

Physical state liquid

Odor None

#### **Precautionary Statements - Prevention**

Use personal protective equipment as required Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling

### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see Section 4 on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

#### Other Information

- · May be harmful if swallowed
- Toxic to aquatic life

Unknown Acute Toxicity

11.9% of the mixture consists of ingredient(s) of unknown toxicity

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Sodium Molybdate, dihydrate	10102-40-6	10	
Sodium nitrite	7632-00-0	3.3	
Sodium hydroxide	1310-73-2	1.5	

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### First aid measures

Eye contact Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete

rinsing. Get immediate medical attention.

**Skin Contact** Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention.

Remove contaminated clothing and wash before reuse.

**Inhalation** Remove victim to fresh air. If breathing difficulty occurs or persists, get medical attention.

Ingestion Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate

medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing

or unconscious person.

## Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None known.

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#### Specific hazards arising from the chemical

No information available.

**Explosion data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### 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.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate nonessential personnel. Ventilate area. Wear appropriate personal protection

equipment.

**Environmental precautions** See Section 12 for additional ecological information.

Methods for containment Completely contain spilled material with dikes or sand bags, etc.

Methods for cleaning up Recover as much material as possible into containers for disposal or reuse. Remaining

material may be diluted with water and neutralized. Flush spill area with water. Neutralization products, both solid and liquid, must be recovered for disposal.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wear appropriate

protective clothing/equipment. Do not breathe dust. Use with adequate ventilation. Do not

ingest.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place. Keep container tightly closed.

**Incompatible materials** Strong acids. Aluminum. Zinc.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Molybdate, dihydrate	TWA: 0.5 mg/m <sup>3</sup> Mo respirable	TWA: 5 mg/m <sup>3</sup> Mo	IDLH: 1000 mg/m <sup>3</sup> Mo
10102-40-6	fraction	(vacated) TWA: 5 mg/m³ Mo	-
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2		(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

#### **Appropriate engineering controls**

**Showers** 

Eyewash stations

Ventilation systems.

## Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

None

**Skin and body protection**Natural rubber, neoprene or nitrile gloves should be worn.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** Wash contaminated clothing before reuse.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state liquid

Appearance aqueous solution Odor

Color clear Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 12.8

Melting point/freezing pointNo information availableBoiling point / boiling range> 100 °C / >212 °F

Flash point Not applicable

**Evaporation rate**Flammability (solid, gas)
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available

Specific Gravity 1.130

Water solubility Soluble in water

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

#### **Other Information**

Softening point
Molecular weight
VOC Content (%)
Density
No information available

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

## **Conditions to avoid**

None known.

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#### **Incompatible materials**

Strong acids. Aluminum. Zinc.

#### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information No data available

**Inhalation** No data available.

Eye contact No data available.

**Skin Contact** No data available.

**Ingestion** No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium nitrite 7632-00-0	= 85 mg/kg ( Rat )	-	= 5.5 mg/L (Rat) 4 h
Sodium hydroxide 1310-73-2	-	= 1350 mg/kg(Rabbit)	-

#### Information on toxicological effects

**Symptoms** No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Molybdate, dihydrate 10102-40-6	A3	-	-	-
Sodium nitrite 7632-00-0	-	Group 2A	-	X

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
No information available.
No information available.

#### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 11.9% of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral) 2238 mg/kg ATEmix (dermal) 69116 mg/kg ATEmix (inhalation-dust/mist) 146.8 mg/l

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

11.9% of the mixture consists of components(s) of unknown hazards to the aquatic environment

	Chemical Name	Algae/aquatic plants	Fish	Crustacea
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Sodium nitrite	- 0.19: 96 h Oncorhynchus mykiss -
7632-00-0	mg/L LC50 flow-through 0.092 -
	0.13: 96 h Oncorhynchus mykiss
	mg/L LC50 flow-through 0.4 - 0.6:
	96 h Oncorhynchus mykiss mg/L
	LC50 semi-static 0.65 - 1: 96 h
	Oncorhynchus mykiss mg/L LC50
	static 2.3: 96 h Pimephales
	promelas mg/L LC50 flow-through
	20: 96 h Pimephales promelas mg/L
	LC50 static
Sodium hydroxide	- 45.4: 96 h Oncorhynchus mykiss -
1310-73-2	mg/L LC50 static

#### Persistence and degradability

No information available.

### **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient
Sodium nitrite	-3.7
7632-00-0	

Other adverse effects No information available

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

Chemical Name	California Hazardous Waste Status
Sodium nitrite	Toxic
7632-00-0	Ignitable
	Reactive
Sodium hydroxide	Toxic
1310-73-2	Corrosive

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

## 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Does not comply DSL/NDSL Does not comply EINECS/ELINCS Does not comply ENCS Does not comply

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**IECSC** Complies

Does not comply **KECL** 

**PICCS** Complies **AICS** Complies

### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US 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

Chemical Name	SARA 313 - Percent by weight
Sodium nitrite - 7632-00-0	3.3

#### SARA 311/312 Hazard Categories

Serious eye damage or irritation Skin corrosion or irritation

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium nitrite 7632-00-0	100 lb	-	-	Х
Sodium hydroxide 1310-73-2	1000 lb	-	-	Х

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium nitrite	100 lb	-	RQ 100 lb final RQ
7632-00-0			RQ 45.4 kg final RQ
Sodium hydroxide 1310-73-2	1000 lb	<del>-</del>	RQ 1000 lb final RQ RQ 454 kg final RQ

#### **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium nitrite 7632-00-0	X	X	X
Sodium hydroxide 1310-73-2	X	X	X

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#### U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

## **16. OTHER INFORMATION**

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 2 Flammability 0 Physical hazards 0 Personal protection X

Prepared By kcs

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Revision Note Updated Section 15 Disclaimer

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**