

# Safety Data Sheet

Revision Date 2023-10-13 Version 1

## 1. Identification of the substance/preparation and of the company/undertaking

**Product Name** Chloraction

UN/ID No. NA1760 Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Chlorinated cleaner and destainer

Uses advised against No information available

Supplier 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)

Category 1 Sub-category B Skin Corrosion/Irritation

Serious Eye Damage/Irritation Category 1 Corrosive to Metals Category 1

## Label Elements Signal word: Danger

**Hazard Statements** 

Causes severe skin burns and eye damage.

May be corrosive to metals.

**Precautionary Statements - Prevention** 

Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep only in original container.

**Precautionary Statements - Response** 

Immediately call a POISON CENTER or doctor/physician. Specific treatment (see Section 4 on the SDS). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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 comfortable for breathing.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Absorb spillage to prevent material damage.

**Precautionary Statements - Storage** 

Store locked up. Store in a corrosive resistant container.

**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 with long lasting effects

Toxic to aquatic life

## 3. Composition/information on ingredients

Chemical Name	CAS Number	% by Weight
Potassium hydroxide	1310-58-3	5-15
Sodium Hypoclorite	7681-52-9	2 - 4
TSRN8301		5 - 10

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

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### 4. First aid measures

### General advice

Immediate medical attention is required.

### Eve 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 from immediate source of exposure to fresh air. If breathing is difficult, administer oxygen if available. If victim is not breathing, administer CPR. If individual experiences nausea, headache, or dizziness, get immediate 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.

### Self-protection of the first aider

Use personal protective equipment as required.

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

### Symptoms

Corrosive. Causes irritation (possibly severe), burns to the eyes. May cause permanent eye damage. Causes irritation (possibly severe), burns to the skin. Causes irritation (possibly severe), burns, pulmonary edema to the respiratory tract. Causes irritation (possibly severe), burns, nausea, vomiting to the gastrointestinal tract. The severity of effects depend on concentration and how soon after exposure the area is washed.

## 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.

### Specific hazards arising from the chemical

If the stock solution container breaks, the solution should be handled with care as it is corrosive. Direct contact with water can cause a violent exothermic reaction. Highly exothermic reactions with organic or oxidizable materials may cause fires in adjacent, heat sensitive material.

### Hazardous combustion products

Toxic fumes of sodium oxide, HOCL, chlorine, HCl, NaCl, sodium chlorate and oxygen

### **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, SHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to cool fire exposed containers. Move containers from fire area if you can do it without risk.

### 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. Do not breathe vapors or mists. Do not ingest. Wash thoroughly after handling. Wear protective clothing/ equipment. Use with adequate ventilation.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed and properly labeled. Containers that have been emptied will retain product residue and should be handled as if they were full. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas can be generated.

Oxidizing agent. Acids. Bases. Ammonia. Water. Halogenated compounds. Maleic anhydride. Reducing sugars. Ammonium salts. Glycols. Flammable liquids. Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc, or other alkali-sensitive metals or alloys. Amines. Reducing agent. Organic material. Cleaner, detergents/soaps. Peroxides.

## 8. Exposure controls/personal protection

## Control parameters

### **Exposure Guideline**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m3	(vacated) Ceiling: 2 mg/m3	Ceiling: 2 mg/m3

## Appropriate engineering controls

Showers

Evewash stations

Ventilation systems

## Individual protection measures, such as personal protective equipment

Wear protective splash proof safety goggles. Additional full face protection is recommended if splashing is a possibility. Avoid contact with eyes.

### Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

### 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 liauid

Color clear light yellow Odor Slight chlorine Odor threshold No information available

12.0 - 12.5, 1% Solution pН Melting point/freezing point No information available Boiling point / boiling range No information available

Flash point Not applicable

Evaporation rate No information available Flammability (solid, gas) No information available Flammability upper limit in air No information available Flammability lower limit in air No information available Vapor pressure No information available Vapor density No information available Specific Gravity 1.210 - 1.230

Water solubility Soluble in water Partition coefficient No information available Autoignition temperature No information available Decomposition temperature Kinematic viscosity Dynamic viscosity No information available No information available No information available

## 10. Stability and reactivity

### Reactivity

No information available

### Chemical stability

Stable under recommended storage conditions.

### **Possibility of Hazardous Reactions**

None under normal processing.

### Conditions to avoid

Will react with some metals forming flammable hydrogen gas. Will react with acids to produce chlorine gas.

### Incompatible materials

Oxidizing agent. Acids. Bases. Ammonia. Water. Halogenated compounds. Maleic anhydride. Reducing sugars. Ammonium salts. Glycols. Flammable liquids. Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc, or other alkali-sensitive metals or alloys. Amines. Reducing agent. Organic material. Cleaner, detergents/soaps. Peroxides.

### **Hazardous Decomposition Products**

Toxic fumes of sodium oxide, HOCL, chlorine, HCl, NaCl, sodium chlorate and oxygen.

## 11. Toxicological information

## Information on likely routes of exposure

Product Information No information available

Inhalation Causes irritation (possibly severe), burns, pulmonary edema to the respiratory tract.

Eye contact Causes irritation (possibly severe), burns to the eyes. May cause permanent eye damage.

**Skin Contact** Causes irritation (possibly severe), burns to the skin.

Ingestion Causes irritation (possibly severe), burns, nausea, vomiting to the gastrointestinal tract.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium hydroxide 214 mg/kg rat 1310-58-3		No data available	No data available
Sodium Hypoclorite = 8200 mg/kg ( Rat ) 7681-52-9		> 10000 mg/kg ( Rabbit )	-
TSRN8301	2444 mg/kg	>4640 mg/m3	

### 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 Hypoclorite 7681-52-9	-	Group 3	-	-

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**

ATEmix (oral) 4695 mg/kg A TEmix (dermal) 54058 mg/kg

## 12. Ecological information

### Ecotoxicity

1.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

### Chloraction

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Potassium hydroxide 1310-58-3		LC50 (Gambusia affinis): 80 mg/L 96h static	
Sodium Hypoclorite 7681-52-9	0.095: 24 h Skeletonema costatum mg/L EC50	0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through 4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static 0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static 0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semistatic 0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static	2.1: 96 h Daphnia magna mg/L EC50 0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static

Persistence and degradability No information available Bioaccumulation No information available

Chemical Name	Partition coefficient
Potassium hydroxide 1310-58-3	0.65 0.83

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
Potassium hydroxide	Toxic
1310-58-3	Corrosive

## 14. Transport information

DOT Regulated UN/ID No. NA1760

Proper shipping name Compounds, Cleaning Liquid

Hazardous ingredients (Potassium Hydroxide/Sodium Hypochlorite)

Hazard class 8
Packing group ||

## 15. Regulatory information

## **US Federal Regulations**

### SARA 311/312 Hazards

Skin Corrosion/Irritation Serious Eye Damage/Irritation Corrosive to Metals

## CWA (Clean Water Act)

This product does contain substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	Reportable Quantities	Toxic Pollutants	Priority Pollutants	Hazardous Substances
Potassium hydroxide 1310-58-3	1000 lb			X
Sodium Hypoclorite 7681-52-9	100 lb	-	-	X

## **CERCLA**

This material, as supplied, contains 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

### Chloraction

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Potassium hydroxide 1310-58-3	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Sodium Hypoclorite 7681-52-9	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ

## **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## **U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

## **16. OTHER INFORMATION**

NFPA Health hazards 3 Flammability 0 Instability 1 Physical and Chemical Properties - HMIS Health hazards 3 Flammability 0 Physical hazards 1 Personal protection x

Prepared By L. Tipka 2023-10-13 Revision Date Revision Note Revision Note

### 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