



This item is only shipped via ground.
Continental US and Canada only
ORM-D
Limited Quantity

Phone: 863 658 0235

1. Chemical Product And Company Information

Chemical Name	Trade Names	Formula	Molecular Weight	CAS#	UN#
Sodium Chlorite	Sodium Salt	NaClO ₂	90.45	7758-19-2	UN 1908

Uses

For the onsite generation of Chlorine Dioxide

Manufacturer/Distributor

KV Lab- Keavys Corner LLC 168 McCoy Drive, Lake Placid FL 33852
Phone: 863 658 0235

2. Composition and Product Information

Concentration by Weight

Sodium Chlorite	Inert Ingredients	Water
22.4%	5.6%	72%
CAS# 7758-19-2		CAS# 7732-18-5

3. Hazard Identification

Emergency Overview:

Colourless, odorless solution with a slight yellow/greenish tint. Does not burn when wet. When dried it can decompose explosively under intense fire conditions forming oxygen and hydrogen chloride gas.

MODERATE to STRONG OXIDIZER

Promotes combustion when dried. Reacts violently with sulfur and sulfur-containing materials, red phosphorus and strong reducing agents. At low pH, reacts releasing corrosive and reactive chlorine dioxide.

Routes of Entry:

Inhalation, Skin Contact/absorption, Eye Contact or Ingestion

Symptoms of Exposure:

Inhalation: Inhalation of vapors or mists may cause irritation of the mucus membranes and respiratory tract. Symptoms may include coughing, bloody nose, and sneezing. Severe exposure may cause lung damage.

Skin Contact/absorption: Direct contact may cause irritation and or burns with symptoms of redness, itching, swelling and possible alkali burns.

Eye Contact: Direct contact may cause irritation and or burns with symptoms of redness, itching, swelling and possible destruction of tissue.

Ingestion: Ingestion may cause gastroenteritis with any or all of the following symptoms: nausea, vomiting, lethargy, diarrhea, bleeding, or ulceration. Acute ingestion of large quantities may also cause anemia due to the oxidizing affects of the chemical

4 . First Aid Measures

Skin: Remove contaminated clothing and keep it wet until washed. Wash the affected area with soap and water. If irritation develops, get medical attention.

Eyes: Flush with water for a minimum of 15 minutes. If irritation persists seek medical attention.

Inhalation: If irritation or other symptoms are experienced, remove victim to fresh air. If symptoms persist get medical attention.

Ingestion:DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Otherwise rinse mouth with water and give 8 to 10 ounces (or 250 to 300 ml) of milk, egg whites or gelatin solution. Get medical attention immediately

5. Fire Fighting Measures

Conditions Of Flammability: Does not burn, but combustibles wetted with this solution and subsequently dried are easily ignited and burn vigorously.

Means To Extinguish: Water is the only effective extinguisher.

Hazardous Combustion Products: None, does not burn.

Flash Point & Method: Not applicable

Upper Flammability Limit: Not applicable

Lower Flammability Limit: Not applicable

Auto-Ignition Temperature: Not applicable

Mechanical Impact Sensitivity: Not applicable (water solution)

Static Discharge Sensitivity: Not applicable (water solution)

6. Accidental Release Measures

Leak Or Spill Procedures : Contain spills. Collect into clean compatible metal or high density polyethylene

containers. Wash away residues with large amounts of water.

DO NOT USE RAGS, SAWDUST OR OTHER COMBUSTIBLE ABSORBENTS.

Waste Control Procedures :

Wash or incinerate all contaminated combustible material in an environmentally acceptable manner before it dries out. Consult supplier regarding disposal of reclaimed sodium chlorite.

7. Handling Storage

Handling Procedures And Equipment : Use corrosion resistant tools and equipment. Avoid skin or clothing contact.

Storage: Store in a cool, dry fireproof building.

KEEP AWAY FROM COMBUSTIBLES, ORGANICS AND ACIDS.

8. Exposures Controls / Personal Protection

Protective Equipment: Chemical safety goggles. Butyl rubber or neoprene gloves. Dust/mist mask in dusty or misty locations. Wear waterproof or washable outer clothing. Remove contaminated clothing and wash it before it dries.

Engineering Controls: Use in well ventilated area.

9. Physical And Chemical Properties

State: Liquid

Odor: Faint bleach-like odour

Boiling Point: Depends on concentration 100 - 105°C

Melting Point: Not applicable

Freezing Point: Depends on concentration -4 - -10°C

pH: 12.5 to 13.5

Appearance: Clear Solution, pale yellow

Specific Gravity: 1.22 @ 20°C for 22.4 wt% Soln.

10. Stability And Reactivity

Chemical Stability: Stable in itself, but reactive as detailed below.

Reactivity Conditions Reacts on mixing with acids to create chlorine dioxide and chlorine gases.

Mixtures with combustibles, if allowed to dry out, are easily ignited by heat or friction and burn vigorously or may explode.

Incompatible Substances: Incompatible with all combustibles and reducing agents, especially phosphorus, sulfur-containing

materials, powdered metals, ammonium compounds. Incompatible with acids.

Hazardous Decomposition Products: Residues of sodium chlorite, from dried-out solution, will give off oxygen on being heated strongly.

11. Toxicological Information

Skin Contact: Irritating to the skin if not washed off promptly. Dermatitis is likely to occur from repeated or prolonged contact.

Skin Absorption: Not available

Eye Contact: Causes severe eye irritation. May cause permanent damage because of its corrosive properties.

Inhalation: Spray or mist is irritating to the nose and throat.

Ingestion: Will irritate and may cause corrosion of the gastrointestinal tract.

May cause vomiting, nausea, diarrhea, cramps and pain.

May damage blood cells, liver or kidney.

LD50: 1650 mg/kg (rat) for 10 wt% Soln.

LC50: Not available

Exposure Limits: Not available

Irritancy: Severe (corrosive)

Sensitization: Not reported as a human sensitizer.

Carcinogenicity: Does not appear in reference lists.

Teratogenicity & Mutagenicity: Not teratogenic even at maternally toxic doses. Mutagenicity has been demonstrated in bacteria and mammalian cell cultures, but not in experiments involving whole animals.

Reproductive Toxicology : Shown to be toxic to mammalian fetuses only at doses toxic to the mother.

In one study, sodium chlorite given in drinking water showed a small but statistically significant increase in the percentage of abnormal sperm; another study was negative.

Toxicological Synergism : Not available.

12. Ecological Information

Ecological Information: This product is toxic to aquatic life. Do not discharge into lakes, streams, ponds, sewers or other waters unless in accordance with the permitting authority.

Biodegradability: In soil, will degrade to sodium chloride but may form chlorine dioxide in contact with acidic soils. Chlorate is an intermediate product of decomposition; it will slowly degrade to chloride.

Aquatic Toxicity: In water, sodium chlorite will eventually degrade to sodium chloride.

13. Disposal Considerations

Disposal Considerations :

Contained ponds, pools, or drains containing organic matter will normally provide an environment in which residual sodium chlorite, chlorine dioxide and chlorus acid will be reduced to harmless compounds quickly. May be reduced with approved reducing agent (eg sodium sulfate) Do not dispose of waste with normal garbage, or to sewer systems. Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

14. Transportation Information

PROPER SHIPPING NAME: CHLORITE SOLUTION

UN NUMBER: 1908

CAS NUMBER: 7758-19-2

HAZMAT CLASS: Class 8 Corrosive

PACKAGING CLASS: II

15. Regulatory Information

OSHA Hazard Communication Evaluation : Meets criteria for hazardous material, as defined by 29 CFR 1910.1200.

Canada

WHMIS Hazardous Class :

D1B Toxic Material

C Oxidizing Material

E Corrosive Material

Environmental:

All components of this product are either on the USA Toxic Substances Control Act (TSCA) Inventory List the Canadian Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt from all three lists.

Transportation: Refer to Section 14.

16. Other Information

Prepared By: Steve Pardee - Keavys Corner LLC

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