

## SAFETY DATA SHEET

Creation Date 02-May-2012 Revision Date 23-Sep-2014 Revision Number 1

1. Identification

Product Name Sodium chlorite, unstabilized

Cat No.: AC223230000; AC223230025; AC223230050; AC223235000

Synonyms Alicide LD; Chlorous Acid, Sodium SAlt (8CI, 9CI)

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Entity / Business Name Emergency Telephone Number

Fisher Scientific Acros Organics For information **US** call: 001-800-ACROS-01

One Reagent Lane One Reagent Lane / Europe call: +32 14 57 52 11

Fair Lawn, NJ 07410 Emergency Number **US**:001-201-796-7100 /

Tel: (201) 796-7100 Europe: +32 14 57 52 99

CHEMTREC Tel. No.US:001-800-424-9300 /

Europe:001-703-527-3887

## 2. Hazard(s) identification

### Classification

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

Oxidizing solids
Category 1
Acute oral toxicity
Category 3
Acute dermal toxicity
Category 2
Acute Inhalation Toxicity - Dusts and Mists
Category 2
Skin Corrosion/irritation
Category 1
Serious Eye Damage/Eye Irritation
Category 1
Specific target organ toxicity - (repeated exposure)
Category 2

### Label Elements

#### Signal Word

Danger

### **Hazard Statements**

May cause fire or explosion; strong oxidizer

Toxic if swallowed

Fatal in contact with skin

Fatal if inhaled

Causes severe skin burns and eye damage

May cause damage to organs through prolonged or repeated exposure



## **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not get in eyes, on skin, or on clothing

Wear protective gloves/protective clothing/eye protection/face protection

Do not breathe dust/fume/gas/mist/vapors/spray

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/ other combustible materials

Take any precaution to avoid mixing with combustibles

Wear fire/flame resistant/retardant clothing

#### Response

Immediately call a POISON CENTER or doctor/physician

#### Inhalation

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

#### Skin

IF ON SKIN: Gently wash with plenty of soap and water

Wash contaminated clothing before reuse

IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes

Rinse skin with water/shower

#### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion** 

#### Rinse mouth

Do NOT induce vomiting

#### Fire

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

In case of fire: Use CO2, dry chemical, or foam for extinction

## Storage

Store locked up

#### **Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

Contact with acids liberates very toxic gas

### Other hazards

May cause pulmonary edema.

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Sodium chlorite	7758-19-2	80
Sodium chloride	7647-14-5	15

### 4. First-aid measures

### **Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

> respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Immediate medical

attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects Causes burns by all exposure routes. Product is a corrosive material. Use of gastric

> lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue

and danger of perforation

**Notes to Physician** Treat symptomatically

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Carbon dioxide (CO2). Foam. Dry chemical. chemical foam.

**Unsuitable Extinguishing Media** No information available

**Flash Point** No information available Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available

Lower

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

## Specific Hazards Arising from the Chemical

Burning produces obnoxious and toxic fumes. Containers may explode when heated.

### **Hazardous Combustion Products**

Hydrogen chloride gas

## **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.

NFPA

Health	Flammability	Instability	Physical hazards
4	0	2	OX

## 6. Accidental release measures

Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to **Personal Precautions** 

safe areas.

See Section 12 for additional ecological information. Avoid release to the environment. **Environmental Precautions** 

Collect spillage.

Up

Methods for Containment and Clean Wear self-contained breathing apparatus and protective suit. Sweep up or vacuum up spillage and collect in suitable container for disposal. Do not let this chemical enter the

environment. Avoid dust formation.

## Handling and storage

Use only under a chemical fume hood. Do not breathe dust. Do not get in eyes, on skin, or Handling

on clothing. Do not ingest. Minimize dust generation and accumulation. Wash hands before

breaks and immediately after handling the product.

Storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store near combustible materials.

## 8. Exposure controls / personal protection

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures** 

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

**Personal Protective Equipment** 

**Eye/face Protection** 

**Hygiene Measures** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protection Respiratory Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Powder Solid **Physical State Appearance** White Odor Odorless

**Odor Threshold** No information available

No information available 180 - 200 °C / 356 - 392 °F **Melting Point/Range** 

**Boiling Point/Range** No information available Flash Point No information available **Evaporation Rate** No information available Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available

Lower

**Vapor Pressure** No information available **Vapor Density** No information available **Relative Density** No information available Solubility No information available Partition coefficient; n-octanol/water No data available No information available

**Autoignition Temperature** 

**Decomposition temperature** 180 °C **Viscosity** No information available

Molecular Formula CI Na O2 **Molecular Weight** 90.44

## Stability and reactivity

**Reactive Hazard** None known, based on information available

Stability Hygroscopic. Stable under normal conditions.

**Conditions to Avoid** Incompatible products. Exposure to moist air or water.

**Incompatible Materials** Strong oxidizing agents, Organic materials, Powdered metals

Hazardous Decomposition Products Hydrogen chloride gas

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

**Acute Toxicity** 

**Product Information** No acute toxicity information is available for this product

Oral LD50 Category 3.  $AT\acute{E} = 50 - 300 \text{ mg/kg}$ . Category 2. ATE = 50 - 200 mg/kg. **Dermal LD50** 

Mist LC50 Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Sodium chlorite	165 mg/kg (Rat)	107.2 mg/kg (Rabbit)	230 mg/m³ (Rat) 4 h	
Sodium chloride	3 g/kg (Rat)	Not listed	42 g/m³ (Rat) 1 h	

**Toxicologically Synergistic** 

No information available

**Products** 

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

Causes burns by all exposure routes Irritation

Sensitization No information available

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

Component	CAS-No	IARC	RC NTP ACGI		OSHA	Mexico
Sodium chlorite	7758-19-2	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium chloride	7647-14-5	Not listed	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects** Mutagenic effects have occurred in experimental animals.

**Reproductive Effects** Experiments have shown reproductive toxicity effects on laboratory animals.

No information available. **Developmental Effects Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard** 

delayed

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes

severe swelling, severe damage to the delicate tissue and danger of perforation

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated. See actual entry in RTECS for

complete information.

## 12. Ecological information

**Ecotoxicity** 

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium chlorite	Not listed	100 mg/L LC50 96 h 100 - 500 mg/L LC50 96 h		0.012 - 0.018 mg/L EC50 48 h 0.25 - 0.33 mg/L EC50 48 h 0.026 mg/L EC50 = 48 h
Sodium chloride	Not listed	Pimephals prome: LC50: 7650 mg/L/96h	Not listed	EC50: 1000 mg/L/48h

Persistence and Degradability No information available

Bioaccumulation/ Accumulation No information available.

Mobility No information available.

## 13. Disposal considerations

Waste Disposal Methods Che

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

DOT

**UN-No** 1496

Proper Shipping Name SODIUM CHLORITE

Hazard Class 5.1 Packing Group

<u>TDG</u>

**UN-No** 1496

Proper Shipping Name SODIUM CHLORITE

Hazard Class 5.1 Packing Group II

**IATA** 

**UN-No** 1496

Proper Shipping Name SODIUM CHLORITE

Hazard Class 5.1 Packing Group

IMDG/IMO

**UN-No** 1496

Proper Shipping Name SODIUM CHLORITE

Hazard Class 5.1 Packing Group II

## 15. Regulatory information

#### **International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium chlorite	Х	Х	-	231-836-6	-		Х	Χ	Χ	Χ	Х
Sodium chloride	Х	Х	-	231-598-3	-		Х	Х	Χ	Х	X

### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

#### SARA 311/312 Hazardous Categorization

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

Clean Water Act Not applicable

Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration

Not applicable

**CERCLA** 

Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

## State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium chlorite	X	X	X	-	X

## **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

## Other International Regulations

Mexico - Grade No information available

### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

C Oxidizing materials

D1A Very toxic materials

E Corrosive material



## 16. Other information

Prepared By Regulatory Affairs

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 02-May-2012

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Sodium chlorite, unstabilized

Revision Date 23-Sep-2014

### **Revision Summary**

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

### Disclaimer

The information provided on this 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 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.

**End of SDS**