

MATERIAL SAFETY DATA SHEET

(SODIUM CHLORITE)

1. Product Identification

Trade name: Liquid Sodium Chlorite

Synonyms: N/A

CAS No.: 7758-19-2

Molecular Weight: 90.44

Chemical Formula: NaClO₂

2. Hazards Identification

Emergency Overview

DANGER! CAUSES SEVERE SKIN AND EYE BURNS. STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CAN VIOLENTLY DECOMPOSE AT ELEVATED TEMPERATURES. HARMFUL IF INHALED OR SWALLOWED CAUSES EYE AND SKIN IRRITATION.

Potential Health Effects

Inhalation: Is harmful

Ingestion: Is harmful

Skin Contact: Severe irritation or burns.

Eye Contact: Severe irritation or burns.

Chronic Exposure: N/A

Aggravation of Pre-existing Conditions: Damaged skin.

SKIN CORROSION/IRRITATION				
Category 1A	Category 1B	Category 1C	Category 2	Category 3
				No pictogram
Danger	Danger	Danger	Warning	Warning
Causes severe skin burns and eye damage	Causes severe skin burns and eye damage	Causes severe skin burns and eye damage	Causes skin irritation	Causes mild skin irritation
			Not required under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations. Note: UN Model Regulations pictogram colours: Symbol (corrosion): black background; upper half: white; lower half: black with white border; Figure "8" in the bottom corner: white.	

3. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sodium Chlorite	7758-19-2	25-32%	Yes

4. First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

Ingestion:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use.

Eye Contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

5. Fire Fighting Measures

Fire:

Not expected to be a fire hazard.

Explosion:

Contact with acids may generate spontaneously flammable chlorine dioxide gas. Greatly increases the burning rate of combustible materials. Fire or excessive heat may produce hazardous decomposition products. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion

Fire Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Special Information:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move exposed containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

Fight fire from protected location

6. Accidental Release Measures

Flush to sewer with large amounts of water.

7. Handling and Storage

Material is a strong oxidizer. Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Do not store near combustible materials. Store in tightly closed container. Since empty container may retain product residue, follow label warnings even after container is empty. Keep away from fire. Fire or high temperatures may cause explosive decomposition.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

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

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Other Control Measures:

There is insufficient data in the published literature to assign complete numerical SAF-T-DATA* ratings and laboratory protective equipment for this product. Special precautions must be used in storage, use and handling. Protective equipment for laboratory bench use should be chosen using professional judgment based on the size and type of reaction or test to be conducted and the available ventilation, with overriding consideration to minimize contact with the chemical.

9. Physical and Chemical Properties

Appearance: Green or light yellow green solution.

Odor: odorless

Solubility: Appreciable (> 10%)

Specific Gravity: 1.22-1.27

PH: N/A. 12—14

Volatiles by volume @ 21^oC (70F): 0

Boiling Point: N/A

Melting Point: N/A

Vapor Density (Air=1): N/A.

Vapor Pressure (mm Hg): @ 20^oC (68F)

Evaporation Rate (BuAc=1): 0

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Hydrogen chloride gas

Hazardous Polymerization: Will not occur.

Incompatibilities: Acids, Reducing agents combustible materials.

Conditions to Avoid: Avoid temperatures above 60^oC

11. Toxicological Information

Acute toxicity:

LD/LC 50 values that are relevant for classification:

ORL-RAT LD50:165mg/kg

ORL-GPG LD50:300mg/kg

ORL-MUS LD50:350mg/kg

Primary irritant effect:

On the skin :Irritant to skin and mucous membranes.

On the eye: irritating effect.

12. Ecological Information

Environmental Fate: N/A

Environmental Toxicity: N/A

General note:Do not allow material to be released to the environment without proper governmental permits

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Land transport ADR/RID(cross -border)

Hazard Class: 8.0

UN/NA: UN1908

Packing Group: II

Proper Shipping Name: SODIUM CHLORITE SOLUTION

Information reported for product/size: 500G

Maritime transport IMDG:

IMDG Class:8.0

Hazard Class: 8.0

UN/NA: UN1908

Packing Group: II

Proper Shipping Name: SODIUM CHLORITE SOLUTION

Information reported for product/size: 500G

15. Regulatory Information

Hazard symbols: Toxic Oxidizing.

Risk phrases:

Contact with combustible material may cause fire.

Toxic if swallowed:

Irritating to eyes respiratory system and skin.

National regulations:

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

Information about limitation of use:

For use only by technically qualified individuals.

16. Other Information

Label Hazard Warning:

DANGER! CAUSES SEVERE SKIN AND EYE BURNS. STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. CAN VIOLENTLY DECOMPOSE AT ELEVATED TEMPERATURES. HARMFUL IF INHALED OR SWALLOWED CAUSES EYE AND SKIN IRRITATION.

Label Precautions:

No SAF-T-DATA Ratings have been developed for this product. Read and follow all warnings, precautions, instructions and other safety and handling information on the label and MSDS.

Avoid contact with eyes, skin, clothing.

Avoid breathing dust. Wash thoroughly after handling. Use with adequate ventilation. Remove and wash contaminated clothing promptly. In case of fire, soak with water. In case of spill, carefully sweep up and remove. Flush area with water.

Label First Aid:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Product Use:

Laboratory Reagent.

Disclaimer:

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