



Material Safety Data Sheet

COMMERCIAL PRODUCT NAME:
SODIUM CHLORITE POWDER

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Synonyms: Chlorous Acid, Sodium Salt

CAS No.: Cas: 7758-19-2

RTECS #: VZ4800000

Name: sodium chlorite

% by Wt: 80%

Ozone Depleting Chemical: N

Supplier: Beijing Stella International Co., Ltd.

Rm. 116, Bldg. No. 16, Qiqu, Hepingli, Beijing 100013, P.R.China

For information call: 86-10-64221407

For emergencies in the US, call CHEMTREC: 800-424-9300

For International CHEMTREC assistance, call: +1-703-527-3887

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Percent	EINECS/ELINCS
7758-19-2	Sodium chlorite	80	231-836-6
7647-14-5	Sodium chloride	20	231-598-3

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: white flakes.

Danger! Strong oxidizer. Contact with other material may cause a fire. Harmful if swallowed. Causes eye and skin irritation and possible burns. Causes digestive and respiratory tract irritation with possible burns. Hygroscopic (absorbs moisture from the air).

Target Organs: Blood, kidneys, eyes, skin, mucous membranes.

Potential Health Effects

Eye: Contact may cause severe eye irritation and possible eye damage.

Skin: Contact with skin causes irritation and possible burns, especially if the skin is wet or moist.

Ingestion: Harmful if swallowed. Causes gastrointestinal tract burns.

Inhalation: May cause cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood). Dust is irritating to the respiratory tract. May cause respiratory tract irritation.

Chronic: No information found.

SECTION 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Flush skin with plenty of water for at least 15



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Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5 - FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire. Use water with caution and in flooding amounts.

Extinguishing Media: Use water only! Contact professional fire-fighters immediately.

Flash Point: 180 deg C (356.00 deg F)

Autoignition Temperature: Not available.

Explosion Limits, Lower: 7.00 vol %

Upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Instability: 0; Special Hazard: OX

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.

SECTION 7. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Keep away from heat, sparks, and flame. Do not store near combustible materials. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium chlorite	none listed	none listed	none listed
Sodium chloride	none listed	none listed	none listed

OSHA Vacated PELs: Sodium chlorite: No OSHA Vacated PELs are listed for this chemical. Sodium chloride: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described



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by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: powder

Appearance: white

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: 3.1

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Decomposition Temperature: 180 deg C

Solubility: 39 g/100ml (17 c)

Specific Gravity/Density: Not available.

Molecular Formula: ClNaO₂

Molecular Weight: 90.44

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Dust generation, organic materials.

Incompatibilities with Other Materials: Strong reducing agents, strong acids, ammonia, finely powdered metals, phosphorus, zinc.

Hazardous Decomposition Products: Hydrogen chloride, sodium oxide.

Hazardous Polymerization: Has not been reported.

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 7758-19-2: VZ4800000

CAS# 7647-14-5: VZ4725000

LD50/LC50:

CAS# 7758-19-2:

Inhalation, rat: LC50 = 230 mg/m³/4H;

Oral, mouse: LD50 = 350 mg/kg;

Oral, rat: LD50 = 165 mg/kg;

Oral, rat: LD50 = 350 mg/kg;

CAS# 7647-14-5:

Draize test, rabbit, eye: 100 mg Mild;

Draize test, rabbit, eye: 100 mg/24H Moderate;



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Draize test, rabbit, eye: 10 mg Moderate;
Draize test, rabbit, skin: 50 mg/24H Mild;
Draize test, rabbit, skin: 500 mg/24H Mild;
Inhalation, rat: LC50 = >42 gm/m³/1H;
Oral, mouse: LD50 = 4 gm/kg;
Oral, rat: LD50 = 3000 mg/kg;
Skin, rabbit: LD50 = >10 gm/kg;

Carcinogenicity:

CAS# 7758-19-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 7647-14-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: No information found

Reproductive Effects: No information found

Mutagenicity: No information found

Neurotoxicity: No information found

Other Studies:

SECTION 12. ECOLOGICAL INFORMATION

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

SECTION 14. TRANSPORT INFORMATION

	US DOT	Canada TDG
Shipping Name:	SODIUM CHLORITE	SODIUM CHLORITE
Hazard Class:	5.1	5.1
UN Number:	UN1496	UN1496
Packing Group:	II	II

SECTION 15. REGULATORY INFORMATION

US FEDERAL

TSCA



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CAS# 7758-19-2 is listed on the TSCA inventory.

CAS# 7647-14-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 7758-19-2: immediate, fire, sudden release of pressure.

CAS # 7647-14-5: immediate.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7758-19-2 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts.

CAS# 7647-14-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

T+ O

Risk Phrases:

R 25 Toxic if swallowed.

R 9 Explosive when mixed with combustible material.



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Safety Phrases:

S 17 Keep away from combustible material.

WGK (Water Danger/Protection)

CAS# 7758-19-2: 2

CAS# 7647-14-5: 0

Canada - DSL/NDSL

CAS# 7758-19-2 is listed on Canada's DSL List.

CAS# 7647-14-5 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of C, D1B, E.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 7758-19-2 is listed on the Canadian Ingredient Disclosure List.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.