

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Chlorite Flakes 80% - ACS Grade
Synonyms: sodium chlorite flakes, sodium chlorite
CAS Number: 7758-19-2
Grade/Purity: ACS Grade
Product Type: Oxidizers
Product Use: Industrial, Manufacturing or Laboratory use
Manufacturer/Supplier: Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574
Information: 512-365-6838 | www.alliancechemical.com
Emergency: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Signal Word: Danger

GHS Pictograms:



Hazard Statements:

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage

Precautionary Statements:

P220	Keep away from clothing and other combustible materials.
P260	Do not breathe dust.
P264	Wash thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye and face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
Sodium Chlorite	80	80	7758-19-2	231-836-6	NaClO ₂	90.44 g/mol
Water	20	20	7732-18-5	231-791-2	H ₂ O	18.02 g/mol

4. FIRST-AID MEASURES

Eyes	· In case of contact with substance, remove immediately by flushing skin or eyes with running water for at least 20 minutes.
Skin	· For minor skin contact, avoid spreading material on unaffected skin.
Inhalation	· Administer oxygen if breathing is difficult.

Ingestion	-- DO NOT perform mouth-to-mouth resuscitation; the victim may have ingested or inhaled the substance.
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5. FIRE-FIGHTING MEASURES

Suitable Media	Water spray or fog in large quantities. Do NOT use dry chemical or CO ₂ .
Unsuitable Media	Do not use dry chemical, CO ₂ , or foam.
Protective Equipment	Wear self-contained breathing apparatus and full protective clothing.
Combustion Products	May include carbon oxides and other toxic fumes. See Section 10.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental	Prevent leakage or spillage from entering drains, sewers, or waterways.
Containment & Cleanup	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

7. HANDLING AND STORAGE

Safe Handling	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
Safe Storage	Store in a cool, dry, well-ventilated area away from combustible materials and heat. Keep away from incompatible materials (see Section 10). Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

Occupational Exposure Limits:

No established occupational exposure limits.

Eyes	Wear chemical safety goggles or face shield.
Skin	Wear chemical-resistant gloves and protective clothing.
Inhalation	Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to slightly yellow crystals/flakes; odorless
Odor	Characteristic
Median Particle Size	Not Available
Particle Size Distribution	Not Available
Particle Shape	Not Available
Surface Area	Not Available
Dustiness	Not Available
Hygroscopicity	Not Available
pH	Not Available
Melting Point	~190 °C (decomposes)
Boiling Point	Not Available
Flash Point	Not applicable
Vapor Pressure	Not Available
Specific Gravity	Not Available
Solubility	Highly soluble; ~545 g/L at 20 °C
Molecular Formula	NaClO ₂

Molecular Weight	90.44 g/mol
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10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	Combustible materials, reducing agents, organic materials.
Decomposition Products	May produce carbon oxides and other toxic fumes when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See Section 2 for GHS hazard classification.

IARC	Not listed as carcinogen.
NTP	Not listed as carcinogen.
OSHA	Not listed as carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish NOEC (chronic): 3.3 mg/L (Oncorhynchus mykiss — MATC, larval growth rate)
Persistence	Strong oxidizer; chlorite ion is the toxic aquatic moiety, reduced/consumed in the environment
Bioaccumulation	BCF No bioaccumulation expected (inorganic ion)
Mobility in Soil	Not Available

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

14. TRANSPORT INFORMATION

US DOT	UN1496, SODIUM CHLORITE, 5.1, PG II
IMDG	UN1496, SODIUM CHLORITE, 5.1, PG II
IATA/ICAO	UN1496, SODIUM CHLORITE, 5.1, PG II
Marine Pollutant	No

15. REGULATORY INFORMATION

Regulatory listings not yet on file in this system; consult OSHA, EPA TSCA, EPCRA TRI, and California OEHHA directly.	
SARA 311/312	See Section 2 for hazard classifications.

16. OTHER INFORMATION

Revision Date: 07/01/2026

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