

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Sodium Chlorite Flakes 80% - Technical Grade

**Synonyms:** sodium chlorite flakes, sodium chlorite

**CAS Number:** 7758-19-2

**Grade/Purity:** Technical 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](http://www.alliancechemical.com)

**Emergency:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

**Signal Word:** Danger

**GHS Pictograms:**



**Hazard Statements:**

|      |                                                                   |
|------|-------------------------------------------------------------------|
| H271 | May cause fire or explosion; strong oxidiser                      |
| H272 | May intensify fire; oxidiser                                      |
| H301 | Toxic if swallowed                                                |
| H310 | Fatal in contact with skin                                        |
| H314 | Causes severe skin burns and eye damage                           |
| H318 | Causes serious eye damage                                         |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life                                        |
| H410 | Very toxic to aquatic life with long lasting effects              |
| H412 | Harmful to aquatic life with long lasting effects                 |

**Precautionary Statements:**

|           |                                                                                                |
|-----------|------------------------------------------------------------------------------------------------|
| P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P220      | Keep away from clothing and other combustible materials.                                       |
| P260      | Do not breathe dust, fume, gas, mist, vapours or spray.                                        |
| P262      | Do not get in eyes, on skin, or on clothing.                                                   |
| P264      | Wash hands and face thoroughly after handling.                                                 |
| P270      | Do not eat, drink or smoke when using this product.                                            |
| P273      | Avoid release to the environment.                                                              |
| P280      | Wear protective gloves, protective clothing, and eye/face protection.                          |
| P283      | Wear fire resistant or flame retardant clothing.                                               |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor.                                      |

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P302+P352      | IF ON SKIN: Wash with plenty of water and soap.                                                                                  |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P306+P360      | IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.                   |
| P310           | Immediately call a POISON CENTER or doctor.                                                                                      |
| P313           | Get medical advice or attention.                                                                                                 |
| P314           | Get medical advice or attention if you feel unwell.                                                                              |
| P321           | Specific treatment (see first-aid information on this label).                                                                    |
| P330           | Rinse mouth.                                                                                                                     |
| P362           | Take off contaminated clothing and wash before reuse.                                                                            |
| P363           | Wash contaminated clothing before reuse.                                                                                         |
| P370+P378      | In case of fire: Use appropriate media to extinguish.                                                                            |

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT       | % MIN | % MAX | CAS #     | EINECS# / ELINCS# | FORMULA            | MOLECULAR WEIGHT |
|-----------------|-------|-------|-----------|-------------------|--------------------|------------------|
| Sodium Chlorite | 81    | 81    | 7758-19-2 | 231-836-6         | NaClO <sub>2</sub> | 90.44 g/mol      |
| Water           | 19    | 19    | 7732-18-5 | 231-791-2         | H <sub>2</sub> O   | 18.02 g/mol      |

### 4. FIRST-AID MEASURES

|                   |                                                                                                                                                                                        |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>       | Rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.                             |
| <b>Skin</b>       | Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with soap. Get medical attention immediately.                                |
| <b>Inhalation</b> | Move person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately. |
| <b>Ingestion</b>  | Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.                             |

### 5. FIRE-FIGHTING MEASURES

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

### 6. ACCIDENTAL RELEASE MEASURES

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

### 7. HANDLING AND STORAGE

|                      |                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safe Handling</b> | 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. |

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

## 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 <sub>2</sub>                                 |
| Molecular Weight           | 90.44 g/mol                                        |

## 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

|                    |                                           |
|--------------------|-------------------------------------------|
| TSCA Inventory     | Listed.                                   |
| SARA 313 (TRI)     | Not listed.                               |
| California Prop 65 | Not listed.                               |
| SARA 311/312       | See Section 2 for hazard classifications. |

Data retrieved as of — TSCA Inventory: 2026-08-02; SARA 313 (TRI): 2026-08-02; California Prop 65: 2026-08-02

## 16. OTHER INFORMATION

**Revision Date:** 08/25/2026

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