

1. Product and Company Identification

Material name	SODIUM CHLORITE, ANHYDROUS, FLAKES
Version #	03
Revision date	08-29-2011
CAS #	7758-19-2
Product Codes	J.T.Baker: V044
Manufacturer	Avantor Performance Materials, Inc.
Address	3477 Corporate Parkway Suite #200 Center Valley, PA 18034 US
Customer Service	855-282-6867
24 Hour Emergency	908-859-2151
Chemtec	800-424-9300

2. Hazards Identification

Emergency overview	DANGER -- OXIDIZER Contact with combustible material may cause fire. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. May be fatal if inhaled. Harmful if swallowed.
OSHA regulatory status	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	
Routes of exposure	Skin contact. Eye contact. Inhalation. Ingestion.
Eyes	Severely irritating; if not removed promptly, will injure eye tissue, which may result in permanent damage.
Skin	This product is severely irritating to the skin and may cause burns.
Inhalation	Highly toxic. Severely irritating to respiratory system. May cause burns. Inhalation of powder/dust may cause lung edema.
Ingestion	Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. Severe abdominal pain.
Chronic effects	Strongly irritating. Prolonged contact may cause burns. May cause lung damage.
Potential environmental effects	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
SODIUM CHLORITE, ANHYDROUS, FLAKES	7758-19-2	79 - 100

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.
Inhalation	Move to fresh air. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Call a physician or poison control center immediately.

Ingestion	Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
Notes to physician	Keep victim under observation. Treat symptomatically.
General advice	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this safety data sheet to the doctor in attendance. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties	This product is not flammable.
Extinguishing media	
Suitable extinguishing media	Water. Carbon dioxide (CO2). Dry chemical powder. Foam.
Unsuitable extinguishing media	None known.
Protection of firefighters	
Specific hazards arising from the chemical	OXIDIZING! Contact with combustible material may cause fire. These substances will accelerate burning when involved in a fire. Some will react explosively with hydrocarbons (fuels). Some may decompose explosively when heated or involved in a fire. Runoff may create fire or explosion hazard. Fire may produce irritating, corrosive and/or toxic gases.
Protective equipment and precautions for firefighters	Use water spray to cool unopened containers. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for fire-fighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
Specific methods	In the event of fire and/or explosion do not breathe fumes.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
Methods for cleaning up	Avoid dust formation.
	Large Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.
	Small Spills: Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use. Clean up in accordance with all applicable regulations. Collect in a non-combustible container for prompt disposal.

7. Handling and Storage

Handling	Keep away from clothing and other combustible materials. Do not get in eyes, on skin, on clothing. Do not taste or swallow. Wash thoroughly after handling. Do not eat, drink or smoke when using the product.
Storage	Keep away from heat and sources of ignition. Do not store near combustible materials. Keep tightly closed in a dry, cool and well-ventilated place.

8. Exposure Controls / Personal Protection

Engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
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Personal protective equipment

Eye / face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.
Respiratory protection	Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
General hygiene considerations	Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
General	Wear chemical protective equipment that is specifically recommended by the manufacturer. Launder contaminated clothing before reuse.

9. Physical & Chemical Properties

Appearance	Flakes.
Color	White.
Odor	Not available.
Odor threshold	Not available.
Physical state	Solid.
Form	Solid.
pH	Not available.
Melting point	356 - 392 °F (180 - 200 °C)
Freezing point	356 - 392 °F (180 - 200 °C)
Boiling point	Not available.
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor density	Not available.
Specific gravity	2.4682
Relative density	Not available.
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available.
Molecular weight	90.44 g/mol
Molecular formula	Cl-Na-O ₂

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Contact with combustibles. High temperatures.
Incompatible materials	Acids. Reducing agents. Organic compounds.
Hazardous decomposition products	Upon combustion, oxides of chlorine may be released. Hydrogen chloride.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product

SODIUM CHLORITE, ANHYDROUS, FLAKES (7758-19-2)

Test Results

Acute Inhalation LC50 Rat: 0.29 mg/l 4.00 Hours

Acute Oral LD50 Rat: 165 mg/kg

* Estimates for product may be based on additional component data not shown.

Acute effects

Harmful if swallowed. May be fatal if inhaled.

Local effects

Dust causes irritation to the eyes, skin and mucous membranes and may lead to toxic lung edemas.

Chronic effects

Strongly irritating. Prolonged contact may cause burns. May cause lung damage.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

SODIUM CHLORITE, ANHYDROUS, FLAKES (CAS 7758-19-2) 3 Not classifiable as to carcinogenicity to humans.

12. Ecological Information

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

Not available.

Partition coefficient (n-octanol/water)

Not available

13. Disposal Considerations

Disposal instructions

Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. All wastes must be handled in accordance with local, state and federal regulations.

Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

14. Transport Information

DOT

Basic shipping requirements:

UN number UN1496
Proper shipping name Sodium chlorite
Hazard class 5.1
Packing group II

Additional information:

Special provisions A9, IB8, IP2, IP4, N34, T3, TP33

Basic shipping requirements:

Labels required 5.1

Additional information:

Packaging exceptions None
Packaging non bulk 212
Packaging bulk 242
ERG number 143

IATA

Basic shipping requirements:

UN number 1496
Proper shipping name Sodium chlorite

Hazard class 5.1
Packing group II
Additional information:
ERG code 5L

IMDG

Basic shipping requirements:

UN number 1496
Proper shipping name SODIUM CHLORITE
Hazard class 5.1
Packing group II



DOT



IATA



IMDG

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
 All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
 Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - Yes
 Pressure Hazard - No
 Reactivity Hazard - No

Section 311 hazardous chemical Yes

Food and Drug Administration (FDA)

Total food additive
 Indirect food additive
 GRAS food additive

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

SODIUM CHLORITE, ANHYDROUS, FLAKES (CAS 7758-19-2) Listed.

Saf-T-Data
 Health: 3 - Severe
 Flammability: 0 - None
 Reactivity: 3 - Severe (Oxidizer)
 Contact: 3 - Severe
 Lab Protective Equip: D - GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES
 Storage Color Code: Y - Yellow (Reactive)

16. Labeling Info

Label Hazard Warning DANGER -- OXIDIZER
 Contact with combustible material may cause fire. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. May be fatal if inhaled. Harmful if swallowed.

Label Precautions Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not taste or swallow. Use only with adequate ventilation. Do not store near combustible materials. Wash thoroughly after handling.

Label First Aid Immediately flush eyes with plenty of water for at least 15 minutes. Immediately flush skin with plenty of water. If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. Get medical attention immediately. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance.

17. Other Information

NFPA ratings
 Health: 3
 Flammability: 0
 Instability: 0
 Special hazards: OX

Disclaimer

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