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: 855-282-6667
24 Hour Emergency: 908-859-2151
Chemtrec: 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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM CHLORITE, ANHYDROUS, FLAKES</td>
<td>7758-19-2</td>
<td>79 - 100</td>
</tr>
</tbody>
</table>

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.
5. Fire Fighting Measures

Flammable properties
This product is not flammable.

Extinguishing media
Water. Carbon dioxide (CO2). Dry chemical powder. Foam.

Protection of firefighters
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.

Specific hazards arising from the chemical

Suitable extinguishing media
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.

Unsuitable extinguishing media
None known.

Protection of firefighters

Specific hazards arising from the chemical

Protective equipment and precautions for firefighters

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.
**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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Flakes</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Form</td>
<td>Solid</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point</td>
<td>356 - 392 °F (180 - 200 °C)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>356 - 392 °F (180 - 200 °C)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>2.4682</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>90.44 g/mol</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>Cl-Na-O2</td>
</tr>
</tbody>
</table>

**10. Chemical Stability & Reactivity Information**

- **Chemical stability**: Material is stable under normal conditions.
- **Conditions to avoid**: Contact with combustibles. High temperatures.
- **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**

<table>
<thead>
<tr>
<th>Product</th>
<th>Test Results</th>
</tr>
</thead>
</table>
| SODIUM CHLORITE, ANHYDROUS, FLAKES (7758-19-2) | 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  

Material name: SODIUM CHLORITE, ANHYDROUS, FLAKES  
MSDS US COV  
MSDS ID: S3360  
Version #: 03  
Revision date: 08-29-2011
5.1 Hazard class
IIPacking group
Additional information:
ERG code
5L

IMDG

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

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

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

Material name: SODIUM CHLORITE, ANHYDROUS, FLAKES
MSDS ID: S3360  Version #: 03  Revision date: 08-29-2011
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)

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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08-29-2011