1. Product and Company Identification

Material name: SODIUM CHLORIDE

Version #: 02
Revision date: 08-29-2011
CAS #: 7647-14-5

Product Codes:
J.T.Baker: 3624, 3625, 3626, 3627, 3628, 4058, 4924
Macron: 4577, 7503, 7532, 7540, 7544, 7576, 7581, 7713

Synonym(s):
Salt; Rock Salt; Saline; Table Salt

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
Chemtrec:
800-424-9300

2. Hazards Identification

Emergency overview:
WARNING
Causes eye irritation.

OSHA regulatory status:
This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects:
Routes of exposure:
Inhalation. Skin contact. Eye contact. Ingestion.

Eyes:
Causes eye irritation.

Skin:
Dust or powder may irritate the skin.

Inhalation:
Inhalation of dusts may cause respiratory irritation.

Ingestion:
May cause irritation of the gastrointestinal tract.

Target organs:
Eyes. Skin. Upper respiratory tract.

Chronic effects:
None known.

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 CHLORIDE</td>
<td>7647-14-5</td>
<td>99 - 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 if irritation develops and persists.

Skin contact:
Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists.

Inhalation:
Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Ingestion:
Drink plenty of water. Seek medical advice. If ingestion of a large amount does occur, call a poison control center immediately.
# Notes to physician
Treat symptomatically.

# General advice
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire Fighting Measures

<table>
<thead>
<tr>
<th>Flammable properties</th>
<th>This product is not flammable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinguishing media</td>
<td>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</td>
</tr>
<tr>
<td>Suitable extinguishing media</td>
<td>None known.</td>
</tr>
<tr>
<td>Unsuitable extinguishing media</td>
<td></td>
</tr>
</tbody>
</table>

### Protection of firefighters

**Compatible equipment and precautions for firefighters**

Firefighters should wear full protective gear. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental Release Measures

### Personal precautions

Keep unnecessary personnel away. Keep upwind. Ventilate the area. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

### Environmental precautions

Prevent further leakage or spillage if safe to do so.

### Methods for containment

If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Prevent entry into waterways, sewer, basements or confined areas.

### Methods for cleaning up

Avoid dust formation.

- **Small Spills:** Sweep up or vacuum up spillage and collect in suitable container for disposal.
- **Large Spills:** Collect dust or particulates using a vacuum cleaner with a HEPA filter. Reduce airborne dust and prevent scattering by moistening with water.

Never return spills in original containers for re-use. Clean contaminated surface thoroughly. Clean up in accordance with all applicable regulations.

### Other information

Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

### Handling

Keep formation of airborne dusts to a minimum. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. See Section 8 of the MSDS for Personal Protective Equipment.

### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure Controls / Personal Protection

### Exposure guidelines

Not established.

### 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**
  Use tight fitting goggles if dust is generated.

- **Skin protection**
  Wear appropriate clothing to prevent repeated or prolonged skin contact.

- **Respiratory protection**
  Wear respirator if there is dust formation.
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.

9. Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Crystals</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</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>Crystalline</td>
</tr>
<tr>
<td>pH</td>
<td>6.7 - 7.3</td>
</tr>
<tr>
<td>Melting point</td>
<td>1473.8 °F (801 °C)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>1473.8 °F (801 °C)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>2669 °F (1465 °C)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</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>2.165</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Soluble</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>58.44 g/mol</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>NaCl</td>
</tr>
</tbody>
</table>

10. Chemical Stability & Reactivity Information

- **Chemical stability**: Stable under normal temperature conditions.
- **Conditions to avoid**: Excessive heat.
- **Incompatible materials**: Strong oxidizing agents.
- **Hazardous decomposition products**: Hydrogen chloride.
- **Possibility of hazardous reactions**: Hazardous polymerization does not occur.

11. Toxicological Information

<table>
<thead>
<tr>
<th>Toxicological data</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>SODIUM CHLORIDE (7647-14-5)</td>
</tr>
<tr>
<td>Test Results</td>
<td>Acute Oral LD50 Rat: 3000 mg/kg</td>
</tr>
</tbody>
</table>

- **Sensitization**: Not a skin sensitizer.
- **Acute effects**: May be harmful if swallowed.
- **Local effects**: Causes eye irritation.
- **Carcinogenicity**: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
- **Skin corrosion/irritation**: Contact with skin may cause irritation.
**Epidemiology**
No epidemiological data is available for this product.

**Mutagenicity**
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Neurological effects**
None known.

**Reproductive effects**
Contains no ingredient listed as toxic to reproduction

**Teratogenicity**
No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

**Symptoms and target organs**
Irritant effects.

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### 12. Ecological Information

**Ecotoxicological data**

<table>
<thead>
<tr>
<th>Product</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM CHLORIDE (7647-14-5)</td>
<td>EC50 Water flea (Daphnia magna): 340.7 mg/l 48.00 hours</td>
</tr>
</tbody>
</table>

**Ecotoxicity**
This product has no known eco-toxicological effects.

**Environmental effects**
Ecological injuries are not known or expected under normal use. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Persistence and degradability**
This material is readily biodegraded and is not likely to bioconcentrate.

**Partition coefficient (n-octanol/water)**
Not available

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### 13. Disposal Considerations

**Disposal instructions**
Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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### 14. Transport Information

**DOT**
Not regulated as dangerous goods.

**IATA**
Not regulated as dangerous goods.

**IMDG**
Not regulated as dangerous goods.

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### 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 - No
Pressure Hazard - No
Reactivity Hazard - No

**Section 311 hazardous chemical**
Yes
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>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*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.

Saf-T-Data

Health: 1 - Slight
Flammability: 0 - None
Reactivity: 0 - None
Contact: 2 - Moderate
Lab Protective Equip: C - GOGGLES; LAB COAT; PROPER GLOVES
Storage Color Code: G - Green (General Storage)

16. Labeling Info

Label Hazard Warning

WARNING

Causes eye irritation.

Label Precautions

Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. Keep container closed.

Label First Aid

Immediately flush eyes with plenty of water for at least 15 minutes. Flush skin thoroughly with water. If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. Get medical attention if irritation develops or persists. If ingestion of a large amount does occur, call a poison control center immediately.

17. Other Information

NFPA ratings

Health: 2
Flammability: 0
Instability: 0
Disclaimer

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