Material Safety Data Sheet
Sodium Salicylate

ACC# 21578

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium Salicylate
Catalog Numbers: S80192, S395 500, S395-500, S395500, S396-12, S396-212, S396-500, S39612, S396212, S39625, S396500
Synonyms: 2-Hydroxybenzoic Acid Monosodium Salt; Salicylic Acid Sodium Salt
Company Identification:
Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
<th>EINECS/ELINCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-21-7</td>
<td>SODIUM SALICYLATE</td>
<td>&gt;99.5</td>
<td>200-198-0</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white solid.

Warning! May cause eye and skin irritation. May be harmful if swallowed. May cause respiratory and digestive tract irritation. May cause central nervous system effects. Eye contact may result in permanent eye damage. May cause cardiac disturbances. May cause liver and kidney damage. May cause reproductive and fetal effects.

Target Organs: Kidneys, heart, central nervous system, liver.

Potential Health Effects
Eye: May cause eye irritation and possible damage.
Skin: May cause skin irritation. May be harmful if absorbed through the skin.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause muscle tremor and impaired motor function. May cause gastric disturbances and electrolytic imbalance. May cause systemic toxic effects on the heart, liver, and kidneys. May be harmful if swallowed. May cause visual and respiratory
Inhalation: May cause respiratory tract irritation.
Chronic: Chronic ingestion may cause effects similar to those of acute ingestion. May cause reproductive and fetal effects.
Section 4 - First Aid Measures

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
**Skin:** Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
**Inhalation:** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid immediately.
**Notes to Physician:** Follow with gastric lavage with activated charcoal. If available, administer ferric hexacyanoferrate as a gastrointestinal trapping agent. Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
**Extinguishing Media:** For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. Use agent most appropriate to extinguish fire. For large fires, use dry chemical, carbon dioxide, water spray, or regular foam.
**Flash Point:** Not applicable.
**Autoignition Temperature:** > 250 deg C (> 482.00 deg F)
**Explosion Limits, Lower:** Not available.
**Upper:** Not available.
**NFPA Rating:** (estimated) Health: 2; Flammability: 1; Instability: 0

Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.
**Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Keep container tightly closed. Do not get on skin or in eyes. Do not ingest or inhale.
**Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.
Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM SALICYLATE</td>
<td>none</td>
<td>none</td>
<td>none</td>
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</tbody>
</table>

**OSHA Vacated PELs:** SODIUM SALICYLATE: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment**

- **Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- **Skin:** Wear appropriate protective gloves to prevent skin exposure.
- **Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- **Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

**Physical State:** Solid

- **Appearance:** white
- **Odor:** none reported
- **pH:** 5-6
- **Vapor Pressure:** Negligible.
- **Vapor Density:** Not available.
- **Evaporation Rate:** negligible
- **Viscosity:** Not available.
- **Boiling Point:** Not available.
- **Freezing/Melting Point:** 200 deg C
- **Decomposition Temperature:** Not available.
- **Solubility:** Soluble in water.
- **Specific Gravity/Density:** Not available.
- **Molecular Formula:** C7H5NaO3
- **Molecular Weight:** 160.023

Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** High temperatures, incompatible materials, light.

**Incompatibilities with Other Materials:** Strong oxidizing agents, strong acids, light.

**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, sodium oxide.

**Hazardous Polymerization:** Has not been reported.
Section 11 - Toxicological Information

**RTECS#:**
CAS# 54-21-7: VO5075000

**LD50/LC50:**
CAS# 54-21-7:
- Oral, mouse: LD50 = 540 mg/kg;
- Oral, rabbit: LD50 = 1700 mg/kg;
- Oral, rat: LD50 = 930 mg/kg;

**Carcinogenicity:**
CAS# 54-21-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available.

**Teratogenicity:** Effects on Newborn: Growth statistics, oral-mouse TDLo=4g/kg; Stillbirth, oral-rat TDLo=40mg/kg.Embryo or Fetus: Death, oral-mouse TDLo=665mg/kg; Stunted fetus, intraperitoneal-rat TDLo=849mg/kg. Specific Developmental Abnormalities: Cardiovascular, subcutaneous-rat TDLo=50mg/kg; Central nervous system, subcutaneous-rat TDLo=300mg/kg; Musculoskeletal, oral-rat TDLo=250mg/kg.

**Reproductive Effects:** Fertility: Post-implantation mortality, oral-rat TDLo=250mg/kg. Paternal Effects: Testes/sperm duct/epididymis, intraperitoneal-rat TDLo=600mg/kg.

**Mutagenicity:** Please refer to RTECS# VO5075000 for specific information.

**Neurotoxicity:** No information available.

**Other Studies:**

Section 12 - Ecological Information

**Ecotoxicity:** No data available. No information available.

**Environmental:** This substance is expected to have a high biological oxygen demand. It is readily biodegradable and has low bioconcentration potential.

**Physical:** No information available.

**Other:** No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>Shipping Name:</th>
<th>US DOT</th>
<th>Canada TDG</th>
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<tbody>
<tr>
<td></td>
<td>Not regulated as a hazardous material</td>
<td>No information available.</td>
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</table>
US FEDERAL

TSCA
   CAS# 54-21-7 is listed on the TSCA inventory.

Health & Safety Reporting List
   None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules
   None of the chemicals in this product are under a Chemical Test Rule.

Section 12b
   None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule
   None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs
   None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances
   None of the chemicals in this product have a TPQ.

SARA Codes
   CAS # 54-21-7: immediate, delayed.

Section 313
   No chemicals are reportable under Section 313.

Clean Air Act:
   This material does not contain any hazardous air pollutants.
   This material does not contain any Class 1 Ozone depletors.
   This material does not contain any Class 2 Ozone depletors.

Clean Water Act:
   None of the chemicals in this product are listed as Hazardous Substances under the CWA.
   None of the chemicals in this product are listed as Priority Pollutants under the CWA.
   None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:
   None of the chemicals in this product are considered highly hazardous by OSHA.

STATE
   CAS# 54-21-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:
   XN

Risk Phrases:
   R 22 Harmful if swallowed.

Safety Phrases:

WGK (Water Danger/Protection)
   CAS# 54-21-7: 1
Canada - DSL/NDSL
CAS# 54-21-7 is listed on Canada's DSL List.

Canada - WHMIS
This product has a WHMIS classification of D2B.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

Section 16 - Additional Information

**MSDS Creation Date:** 4/08/1998  
**Revision #3 Date:** 10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.