



Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300

**MATERIAL SAFETY DATA SHEETS**

**SECTION I**

**PRODUCT AND COMPANY IDENTIFICATION**

**Product: Sodium benzoate**

**This MSDS is valid for all grades and catalog #'s**

Synonyms: Benzoate of soda; Sodium benzoic acid;  
Benzoate sodium; benzoic acid sodium salt; Antimol

Formula: C7-H5-O2-Na

Manufacturer: PHARMCO-AAPER  
58 Vale Road  
Brookfield, Connecticut 06804, USA  
Phone (203) 740-3471  
Fax (203) 740-3481

1101 Isaac Shelby Drive  
Shelbyville, KY 40065  
Phone (502) 633-0650  
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Emergency Contact:  
CHEMTREC 1-800-424-9300

**SECTION II**

**COMPOSITION / INFORMATION ON INGREDIENTS**

% by Material CAS # TLV/PE LC50/LD50  
weight L

% by weight	Material	CAS #	TLV/PE L	LC50/LD50
100	Sodium Benzoate	532-32-1	Not available	ORAL (LD50): Acute: 4070 mg/kg [Rat]. 1600 mg/kg [Mouse]. 2000 mg/kg [Rabbit].

**SECTION III**

**HAZARDS IDENTIFICATION**

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to blood, liver, urinary system, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

**SECTION IV**

**FIRST AID**

Obtain medical attention for all cases of over-exposure.

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Hazardous Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Hazardous Inhalation:** Not available.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

**Hazardous Ingestion:** Not available.

**SECTION V**

**FIRE FIGHTING MEASURES**

**Fire:**

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition temperature: Not available.

Flash point: Not available.

Flammable limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO2).

**Fire Hazards:** Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

**Explosion Hazards:** Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks.

**Fire Extinguishing Media:** SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Information:** When heated to decomposition it emits acrid fumes and disodium oxide. Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

**SECTION VI**

## SPILL/ACCIDENTAL RELEASE MEASURES

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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## SECTION VII

### HANDLING AND STORAGE

**Precautions:** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic

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## SECTION VIII

### EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

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## SECTION IX

### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State/Appearance:** Solid. (Granular solid. Crystalline powder.)

**Molecular Weight:** 144.11 g/mole

**Odor:** Odorless.

**Taste:** Sweetish, astringent.

**Color:** White.

**pH (1% Solution in Water):** Not available.

**Boiling Point:** Not available.

**Melting Point:** >300°C (572°F)

**Critical Temperature:** Not available.

**Specific Gravity:** Not available.

**Vapor Pressure (mm Hg):** Not applicable.

**Vapor Density (Air=1):** 4.97 (Air = 1)

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Water/Oil Dist. Coefficient:** Not available.

**Ionicity (in water):** Not available.

**Dispersion Properties:** See solubility in water.

**Solubility:** Easily soluble in cold water, hot water.

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## SECTION X

### STABILITY/REACTIVITY INFORMATION

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat, dust generation

**Incompatibilities:** Reactive with oxidizing agents.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Information:** Hygroscopic; keep container tightly closed.

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## SECTION XI

### TOXICOLOGICAL INFORMATION

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 1600 mg/kg [Mouse].

**Chronic Effects on Humans:** May cause damage to the following organs: blood, liver, urinary system, central nervous system (CNS).

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Information on Toxicity to Animals:** Not available.

**Special Information on Chronic Effects/Toxicity on**

**Humans:** May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. May affect genetic material (mutagenic). Acute Potential Health Effects:

**Skin:** May cause skin irritation. **Eyes:** Dust may cause eye irritation. **Inhalation:** May cause respiratory tract irritation with coughing, wheezing and/or shortness of breath.

**Ingestion:** Sodium Benzoate in small doses, mixed with food, has not been found to cause any deleterious or poisonous action. Furthermore, in large doses, mixed with food, it has not been found to exert deleterious effects on general health, nor act as a poison. Single doses of 6 grams are generally tolerated in adults. However, Ingestion of large amounts may cause gastrointestinal tract irritation with gastric pain, nausea, and vomiting. May also affect behavior/central nervous system (tremor, convulsions, change in motor activity), and respiration (dyspnea). **Chronic Potential Health Effects:** **Ingestion:** Prolonged or repeated ingestion of Sodium Benzoate may affect behavior/central nervous system (symptoms similar to acute exposure) as well as liver, blood (changes in serum composition (e.g. TP, bilirubin, cholesterol)), and urinary system. Ingestion of large amounts of benzoates (1 gram per kilogram of body weight per day) may also cause weight loss and have been associated with metabolic acidosis (a disturbance of the body acid-base balance in which there is excessive acidity of the blood), lactic acidosis, hypokalemia (low blood potassium levels), and hypocalcemia (low blood calcium levels). **Skin:** Repeated or prolonged skin contact may cause skin allergy

(contact dermatitis). Ingestion: Repeated or prolonged ingestion of benzoates may cause allergic (anaphylactoid) reaction.

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**SECTION XII  
ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**Special Information on Products of Biodegradation:** Not available.

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**SECTION XIII  
DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Recycle to process, if possible. Consult your local or regional authorities.

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**SECTION XIV  
TRANSPORTATION INFORMATION**

**DOT Classification:** DOT Not a DOT controlled material (United States).

**UN:** Not applicable.

**Special Provisions for Transport:** Not applicable.

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**SECTION XV  
REGULATORY INFORMATION**

**Federal and State Regulations:** Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are: **NONE**

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual report release of toxic chemicals that appear in 40 CFR 372 (used for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are: **NONE**

**Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA):** No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.

**Other Classifications:**

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC): Not applicable

**Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

**References:**

- Registry of Toxic Effects of Chemical Substances (RTECS).
- Hazardous Substance Data Bank (HSDB).
- New Jersey Hazardous Substance Fact Sheet.
- Manufacturer's Material Safety Data Sheet.

**Other Special Considerations:** Not available.

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The information contained herein is based on data considered to be accurate based on the material as packaged. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's obligation to determine the conditions of safe use of the product. While this MSDS is based on technical data judged to be reliable, PHARMCO-AAPER assumes not responsibility for the completeness or accuracy of the information contained herein.