

Cab. 11

MSDS Number: S3602 \* \* \* \* Effective Date: 08/10/04 \* \* \* \* Supercedes: 11/02/01

**MSDS** Material Safety Data Sheet

From: Mallinckrodt Baker, Inc.  
222 Red School Lane  
Phillipsburg, NJ 08865



24 Hour Emergency Telephone: 908-859-2151  
CHEMTREC: 1-800-424-9300

National Response in Canada  
CANUTEC: 613-996-6666

Outside U.S. And Canada  
Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance

# DIPHENYLAMINE SULFONIC ACID SODIUM SALT

## Product Identification

**Synonyms:** Benzene sulfonic acid, 4-(phenylamino)-, monosodium salt;n-phenylsulfanilic acid, sodium salt

**CAS No.:** 6152-67-6

**Molecular Weight:** 271.28

**Chemical Formula:** C<sub>12</sub>H<sub>10</sub>NNaO<sub>3</sub>S

**Product Codes:** V026

## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Diphenylamine Sulfonic Acid Sodium Salt	6152-67-6	100%	Yes

## 3. Hazards Identification

## Emergency Overview

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**CAUTION! MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS THE BLOOD. MAY CAUSE METHEMOGLOBINEMIA.**

**J.T. Baker SAF-T-DATA<sup>(tm)</sup>** Ratings (Provided here for your convenience)

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Health Rating: 2 - Moderate

Flammability Rating: 1 - Slight

Reactivity Rating: 1 - Slight

Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Orange (General Storage)

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## Potential Health Effects

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The health effects of this substance have not been thoroughly investigated. It is expected the health hazards parallel those for Diphenylamine (CAS 122-39-4), a comparable compound.

### **Inhalation:**

Inhalation of dusts of a comparable compound may cause irritation to the respiratory tract and cause moderate systemic effects such as methemoglobinemia by absorption.

### **Ingestion:**

Comparable compounds are moderately toxic by ingestion and can cause blood circulation problems.

### **Skin Contact:**

Comparable compounds are skin irritants. This compound is probably an irritant and may be absorbed through skin.

### **Eye Contact:**

Probably an irritant to eyes.

### **Chronic Exposure:**

Prolonged or repeated exposure from inhalation or skin absorption of liquid may cause damage to the nervous system, liver, kidneys, and bone marrow. May also cause weight loss, anemia, weakness, and irritability.

### **Aggravation of Pre-existing Conditions:**

Persons with pre-existing skin disorders or eye problems, or impaired liver, kidney or respiratory function may be more susceptible to the effects of the substance.

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## 4. First Aid Measures

Procedures that parallel those of diphenylamine (CAS #122-39-4) will be discussed.

### **Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. CALL A PHYSICIAN IMMEDIATELY.

### **Ingestion:**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an

unconscious person.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

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## 5. Fire Fighting Measures

**Fire:**

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

**Explosion:**

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Fire Extinguishing Media:**

Water spray, dry chemical, alcohol foam, or carbon dioxide.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

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## 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

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## 7. Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities.

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## 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:**

For Diphenylamine [122-39-4]:

-OSHA Permissible Exposure Limit (PEL): 10 mg/m<sup>3</sup> (TWA)

-ACGIH Threshold Limit Value (TLV): 10 mg/m<sup>3</sup> (TWA)

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. An OV/particulate (NIOSH type N95 filter or better) respirator may be preferable when odor is a problem.

**Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:**

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

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## Physical and Chemical Properties

Little physical or chemical information was found for this substance. General information is shown as applicable.

**Appearance:**

Off-white to light gray powder.

**Odor:**

Characteristic odor.

**Solubility:**

Very soluble in water.

**Specific Gravity:**

No information found.

**pH:**

No information found.

**% Volatiles by volume @ 21C (70F):**

No information found.

**Boiling Point:**

Not applicable.

**Melting Point:**

No information found.

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

No information found.

**Vapor Pressure (mm Hg):**

No information found.

**Evaporation Rate (BuAc=1):**

No information found.

## 10. Stability and Reactivity

### Stability:

No information found.

### Hazardous Decomposition Products:

Burning may produce sulfur oxides and nitrogen oxides.

### Hazardous Polymerization:

No information found.

### Incompatibilities:

Diphenylamine [122-39-4], a comparable compound, reacts violently with hexachloromelamine, trichloromelamine, and strong oxidizers.

### Conditions to Avoid:

No information found.

## 11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure. Diphenylamine [122-39-4] was shown to have the following toxicity: Oral rat LD50: 2000 mg/kg.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Diphenylamine Sulfonic Acid Sodium Salt (6152-67-6)	No	No	None

## 12. Ecological Information

### Environmental Fate:

No information found.

### Environmental Toxicity:

No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Not regulated.

## 15. Regulatory Information

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-----\Chemical Inventory Status - Part 1\-----
Ingredient                                     TSCA  EC   Japan  Australia
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Diphenylamine Sulfonic Acid Sodium Salt      Yes  Yes  No     Yes
(6152-67-6)

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-----\Chemical Inventory Status - Part 2\-----
Ingredient                                     Korea  --Canada--  Phil.
                                     DSL  NDSL
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Diphenylamine Sulfonic Acid Sodium Salt      Yes  Yes  No     Yes
(6152-67-6)

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-----\Federal, State & International Regulations - Part 1\-----
Ingredient                                     -SARA 302-  -SARA 313-
                                     RQ   TPQ   List  Chemical Catg.
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Diphenylamine Sulfonic Acid Sodium Salt      No   No    No     No
(6152-67-6)

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-----\Federal, State & International Regulations - Part 2\-----
Ingredient                                     -RCRA-  -TSCA-
                                     CERCLA  261.33  8(d)
-----
Diphenylamine Sulfonic Acid Sodium Salt      No     No     No
(6152-67-6)

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Chemical Weapons Convention: No      TSCA 12(b): No      CDTA: No  
SARA 311/312: Acute: Yes      Chronic: Yes      Fire: No      Pressure: No  
Reactivity: No      (Pure / Solid)

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

### WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

**NFPA Ratings:** Health: 2 Flammability: 1 Reactivity: 0

**Label Hazard Warning:**

CAUTION! MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. AFFECTS THE BLOOD. MAY CAUSE METHEMOGLOBINEMIA.

**Label Precautions:**

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

**Label First Aid:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Call a physician.

**Product Use:**

Laboratory Reagent.

**Revision Information:**

No Changes.

**Disclaimer:**

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