1. Chemical Product and Company Identification

Product Name: SBP
Distributed By: HB Chemical
1665 Enterprise Parkway
Twinsburg Oh 44087
Phone - 330-920-8023
SDS Prepared By (w Suppliers Input): HB Chemical
Chemical Name / Family: Phosphinic Acid phenyl-, sodium salt/Phosphinic acid salt
Common name: Sodium Benzene Phosphinate
Synonym: Sodium Phenyl phosphinate; sodium phenylphosphinate; phenylphosphinic acid
Molecular Formula: C₆H₆NaO₂P
Molecular Weight via GPC, Mn: 164.07
Product Use: Plasticizer
OSHA Status: Non hazardous
CAS No: 4297-95-4

For emergency health, safety, and environmental information, calls 330-920-8023
For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

Warning: Not available.
Signs and Symptoms of Exposure: Not available.
Primary Routes of Entry: Skin and inhalation.
Medical Conditions Generally Aggravated by Exposure: Not available.
Eye Contact: May cause eye irritation.
Skin Contact: May cause skin irritation.
Ingestion: May cause irritation of the digestive tract.
Inhalation: May cause respiratory tract irritation.

NFPA Rating: Health-1, Fire-1, Reactivity- 1
HMIS Hazard Ratings: Health-1, Flammability -1, Reactivity- 1
HMIS limitation statement: The HMIS hazard ratings numbers are meant to give a quick indication of the relative hazards associated with the product. All of the information contained in the SDS should be consulted to assist with the safe handling of this material.
3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Weight Percent / Typical</th>
<th>Component Identity</th>
<th>CAS Registry Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>99-100%</td>
<td>Phosphinic acid, phenyl, sodium salts</td>
<td>4297-95-4</td>
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</table>

4. First Aid Measures

Inhalation: Move to fresh air, rest, half upright position. Loosen clothing and give oxygen for difficulty breathing or artificial respiration if there is no breathing.

Eyes: Rinse with lots of water. If irritation persists seek medical attention. Get under eyelids with water.

Skin: Wash with soap and water. Remove contaminated clothing, launder before reuse.

Ingestion: Rinse mouth with water, drink water, DO NOT Induce vomiting unless directed by medical personnel.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water Spray, Dry Chemical, Carbon Dioxide CO2, Foam.

Special Fire Fighting Procedures: As in any fire, wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Hazardous Combustion Products: This product decomposes in air at or above >300 C (570F) and releases benzene and phenylphosphine. Phenylphosphine ignites spontaneously in air.

Unusual fire and explosion hazards: Emits toxic fumes under fire conditions.

6. Accidental Release Measures

Steps to be taken in case material is spilled: Collect as much as possible and put in clean containers for reuse or disposal. Use inert absorbent for disposal by local regulations. Use adequate ventilation and/or wear a NIOSH approved respirator, with dust, fume and smoke filter. Stop source of spill. Sweep up spill creating little or no dust, DO NOT vacuum, as it will create a static charge and create fire/explosion hazard. Soap and water can be used for clean up as long as it is not discharged into public waterways.
**Personal protection:**
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Environmental Disposal Information:**
Do not discharge into waterways.

**Waste Disposal:**
Reclaim or dispose of in accordance with local, state, and federal regulations.

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### 7. Handling and Storage

**Empty Containers:**
Empty containers may have residue so handle according to hazards and precaution of material.

**Precautions to be taken in handling:**
Usual precautions for handling chemicals should be observed avoid creating dust when handling this material. Wear protective equipment. Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage:**
Keep container closed. Suitable for general storage areas. Isolate from incompatible materials.

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### 8. Exposure Controls / Personal Protection

**Exposure Controls:**
There are no established exposure limits.

**Respiratory Protection:**
In case of insufficient ventilation, wear suitable resp. equipment with dust, smoke and vapor mist filter. Keep respirators maintained with fresh filters and cartridges.

**Ventilation:**
Well-ventilated areas are recommended and if not available wear NIOSH positive-pressure respirators.

**Hand protection:**
Wear gloves.

**Eye Protection:**
Wear goggles when dealing with open containers and dust.

**Skin and Body Protection:**
Wear appropriate protective clothing to prevent skin exposure.

**Other Precautions:**
Usual precautions for handling chemicals should be observed.

**Decontamination Facilities:**
Safety showers, eye wash stations and available water are recommended in any facility storing this material.

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### 9. Physical and Chemical Properties

**Physical Form:**
Crystalline Solid

**Appearance & Odor:**
White

**Specific Gravity:**
1.56 @20C
10. Stability and Reactivity

Stability: This product is stable under normal conditions.

Incompatibility (Materials to Avoid): Material reacts with strong oxidizing agents.

Conditions to Avoid: Avoid extreme heat.

Hazardous Decomposition Products: Phosphine, carbon monoxide, oxides of phosphorus, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Hazardous polymerization will not occur.

11. Toxicological Information

This material is not listed as a carcinogen or potential carcinogen by NTP, IARC, or OSHA.

Dermal: This material is considered slightly/non-toxic based on Dermal LD 50 (rabbit) or greater than 4640 mg/kg.

Ingestion: This product is considered slightly/nontoxic based on oral LD 50 (rat) of greater than 4640 mg/kg.

Ingestion Chronic: This may cause slight irritation of the mouth, throat, stomach and esophagus if swallowed.

12. Ecological Information

Ecotoxicity: The 96 hour LC50 (oncarhynchus mykiss) = 10,000 mg/l
13. Disposal Considerations
Reclaim or Dispose of material in accordance with all applicable local, state, and federal regulations.

14. Transport Information

D.O.T. Shipping Name: Not regulated.

15. Regulatory Information
All components of this material are on the TSCA Inventory.
All components of this material are on the Canadian DSL.
New Jersey RTK Label Information: Phosphinic acid, phenyl, sodium salts, CAS No. 4297-95-4
Pennsylvania RTK Label Information: Phosphinic acid, phenyl, sodium salts, CAS No. 4297-95-4
SARA Section 302 Extremely Hazardous Substances: None of the chemicals in this product have a TPQ.
SARA Section 313: No chemicals are reportable under Section 313.
California Prop 65: None of the chemicals in this product are listed.
Canada WHMIS: This product has a WHMIS classification of D2B.

16. Other Information
The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as a recommendation to violate of any law, regulation or patent. It is the user’s responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.