# SAFETY DATA SHEET

**Creation Date**: 29-Oct-2010  
**Revision Date**: 27-Aug-2015  
**Revision Number**: 2

## 1. Identification

**Product Name**: Phenol Red, sodium salt  
**Cat No.** : AC417250000; AC417250050; AC417250100; AC417251000  
**Synonyms**: Phenolsulfonephthalein Sodium.  
**Recommended Use**: Laboratory chemicals.  
**Uses advised against**: No Information available

## 2. Hazard(s) identification

**Classification**  
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Issue</th>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/irritation</td>
<td>Category 2</td>
<td></td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2</td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
<td></td>
</tr>
<tr>
<td>Target Organs - Respiratory system</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Label Elements**

**Signal Word**: Warning  
**Hazard Statements**
- Causes skin irritation  
- Causes serious eye irritation  
- May cause respiratory irritation

**Precautionary Statements**
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell

Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
None identified

<table>
<thead>
<tr>
<th>3. Composition / information on ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component</td>
</tr>
<tr>
<td>Phenol, 4,4’-(3H-2,1-benzoxathiol-3-ylidene)bis-(\cdot)S,S-dioxide, monosodium salt</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. First-aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Advice</td>
</tr>
<tr>
<td>Eye Contact</td>
</tr>
<tr>
<td>Skin Contact</td>
</tr>
<tr>
<td>Inhalation</td>
</tr>
<tr>
<td>Ingestion</td>
</tr>
<tr>
<td>Most important symptoms/effects</td>
</tr>
<tr>
<td>Notes to Physician</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. Fire-fighting measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suitable Extinguishing Media</td>
</tr>
<tr>
<td>Unsuitable Extinguishing Media</td>
</tr>
<tr>
<td>Flash Point Method -</td>
</tr>
<tr>
<td>Autoignition Temperature Explosion Limits Upper</td>
</tr>
</tbody>
</table>
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Lower
Sensitivity to Mechanical Impact No data available
Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products
Carbon monoxide (CO) Carbon dioxide (CO₂) Sulfur oxides

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

NFPA
Health 2
Flammability 1
Instability 0
Physical hazards N/A

6. Accidental release measures
Personal Precautions
Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Should not be released into the environment. See Section 12 for additional ecological information.

Environmental Precautions

Methods for Containment and Clean Up
Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.

7. Handling and storage
Handling
Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

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

8. Exposure controls / personal protection
Exposure Guidelines
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures
Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment
Eye/face Protection
Tightly fitting safety goggles.

Skin and body protection
Long sleeved clothing.

Respiratory Protection
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.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Powder Solid
Appearance Red brown
Odor Odorless
Odor Threshold No information available
pH: No information available
Melting Point/Range: 285 °C / 545 °F
Boiling Point/Range: No information available
Flash Point: No information available
Evaporation Rate: Not applicable
Flammability (solid, gas): No information available
Flammability or explosive limits: No data available
Upper: No data available
Lower: No data available
Vapor Pressure: No information available
Specific Gravity: No information available
Solubility: No information available
Partition coefficient; n-octanol/water: No data available
Autoignition Temperature: No information available
Viscosity: Not applicable
Molecular Formula: C19 H13 Na O5 S
Molecular Weight: 376.35

10. Stability and reactivity

Reactive Hazard: None known, based on information available
Stability: Stable under normal conditions.
Incompatible Materials: Strong oxidizing agents
Hazardous Decomposition Products: Carbon monoxide (CO), Carbon dioxide (CO₂), Sulfur oxides
Hazardous Polymerization: Hazardous polymerization does not occur.
Hazardous Reactions: None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information: No acute toxicity information is available for this product
Component Information: No information available
Toxicologically Synergistic Products: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: Irritating to eyes, respiratory system and skin
Sensitization: No information available
Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>IARC</th>
<th>NTP</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol, 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bis-, S,S-dioxide, monosodium salt</td>
<td>34487-61-1</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Mutagenic Effects: No information available
Reproductive Effects: No information available.
Phenol Red, sodium salt  

Developmental Effects  
No information available.

Teratogenicity  
No information available.

STOT - single exposure  
Respiratory system

STOT - repeated exposure  
None known

Aspiration hazard  
No information available

Symptoms / effects, both acute and delayed  
No information available

Endocrine Disruptor Information  
No information available

Other Adverse Effects  
The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity  
Do not empty into drains.

Persistence and Degradability  
Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/Accumulation  
No information available.

Mobility  
Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal Methods  
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT  
Not regulated

TDG  
Not regulated

IATA  
Not regulated

IMDG/IMO  
Not regulated

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL</th>
<th>NSDL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>PICCS</th>
<th>ENCS</th>
<th>AICS</th>
<th>IECSC</th>
<th>KECL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol, 4,4’-(3H-2,1-benzoxathiol-3-ylidine)bis-, S,S-dioxide, monosodium salt</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>252-057-8</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
UX - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

**U.S. Federal Regulations**

- **TSCA 12(b)**  
  - Not applicable

- **SARA 313**  
  - Not applicable

**SARA 311/312 Hazardous Categorization**

- **Acute Health Hazard**: Yes
- **Chronic Health Hazard**: No
- **Fire Hazard**: No
- **Sudden Release of Pressure Hazard**: No
- **Reactive Hazard**: No

- **Clean Water Act**: Not applicable

- **Clean Air Act**: Not applicable

- **OSHA Occupational Safety and Health Administration**: Not applicable

- **CERCLA**: Not applicable

- **California Proposition 65**: This product does not contain any Proposition 65 chemicals

- **State Right-to-Know**: Not applicable

**U.S. Department of Transportation**

- **Reportable Quantity (RQ)**: N
- **DOT Marine Pollutant**: N
- **DOT Severe Marine Pollutant**: N

**U.S. Department of Homeland Security**

- This product does not contain any DHS chemicals.

**Other International Regulations**

- **Mexico - Grade**: No information available

**Canada**

- This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

- **WHMIS Hazard Class**: D2B Toxic materials

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**16. Other information**

**Prepared By**

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End of SDS