1. PRODUCT AND COMPANY INFORMATION

INVITROGEN CORPORATION
1600 FARADAY AVE.
CARLSBAD, CA 92008
760/603-7200

GIBCO PRODUCTS
INVITROGEN CORPORATION
3175 STALEY ROAD P.O. BOX 68
GRAND ISLAND, NY 14072
716/774-6700

EMERGENCY NUMBER (SPILLS, EXPOSURES): 301/431-8585 (24 HOUR)
800/451-8346 (24 HOUR)

NON-EMERGENCY INFORMATION: 800/955-6288

Product Name:
PHENOL RED, POWDER

NOTE: If this product is a kit or is supplied with more than one material, please refer to the MSDS for each component for hazard information.

Product Use:
These products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutic, or other clinical uses.

Synonyms:
Not available.

2. COMPOSITION, INFORMATION ON INGREDIENTS

The following list shows components of this product classified as hazardous based on physical properties and health effects:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHENOL RED SODIUM SALT</td>
<td>34487-61-1</td>
<td>60 - 100</td>
</tr>
</tbody>
</table>
3. HAZARDS IDENTIFICATION

***************************** EMERGENCY OVERVIEW *****************************

Warning!
Irritant.
Harmful if swallowed.
Harmful by inhalation.

Potential Health Effects:

Eye:
Can cause minor irritation, tearing and reddening.

Skin:
Can cause minor skin irritation, defatting, and dermatitis.

Inhalation:
Can cause minor respiratory irritation, dizziness, weakness, fatigue, nausea, and headache.
Harmful! Can cause systemic damage (see "Target Organs").

Ingestion:
Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.
Harmful if swallowed. May cause systemic poisoning.

Chronic:
No data on cancer.

4. FIRST AID MEASURES

Eye:
Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin:
Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Inhalation:
Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Ingestion:
Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS.
4. FIRST AID MEASURES (CONT.)

Note To Physician:
Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flashpoint Deg C: Not available.
Upper Flammable Limit %: Not available.
Lower Flammable Limit %: Not available.
Autoignition Temperature Deg C: Not available.

Extinguishing Media:
Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid. Use water spray/fog for cooling.

Firefighting Techniques/Equipment:
Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.

Hazardous Combustion Products:
Includes carbon dioxide, carbon monoxide, dense smoke.

6. ACCIDENTAL RELEASE MEASURES

Accidental releases may be subject to special reporting requirements and other regulatory mandates. Refer to Section 8 for personal protection equipment recommendations.

Spill Cleanup:
Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area.
6.  ACCIDENTAL RELEASE MEASURES (CONT.)

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7.  HANDLING AND STORAGE

Storage of some materials is regulated by federal, state, and/or local laws.

Storage Pressure:
Ambient

Handling Procedures:
Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Keep closed or covered when not in use.

Storage Procedures:
Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Suitable for most general chemical storage areas.

8.  EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL (ppm)</th>
<th>AGCIH TWA (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHENOL RED SODIUM SALT</td>
<td>Not established.</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

Engineering Controls:
No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Personal Protective Equipment:
Eye:
Safety glasses should be the minimum eye protection. Wear chemical goggles.

Skin:
Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
8. EXPOSURE CONTROLS, PERSONAL PROTECTION (CONT.)

Gloves should be used as minimum hand protection.

Respiratory:
A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/physical state: Opaque, or nearly so. Slightly red to red.
Odor: No odor.
Boiling Point (C): *
Melting Point (C): 572 299.97
Solubility in water: Not established.
PH: Not established.
Vapor Pressure: Not established.
Vapor Density: Not established.
Specific Gravity/Density: Not established.
Octanol/water Partition Coeff: Not established.
Volatiles: -0
Evaporation Rate: Not established.
Viscosity: Not established.

10. STABILITY AND REACTIVITY

Stability:
Stable under normal conditions.

Conditions to Avoid:
Strong oxidizing agents. High temperatures.

Hazardous Decomposition Products:

Hazardous Polymerization:
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:
Dermal/Skin: Not determined.
11.  TOXICOLOGICAL INFORMATION (CONT.)

Inhalation/Respiratory:
Not determined.

Oral/Ingestion:
Not determined.

Target Organs: No data found.

Carcinogenicity:

NTP:
Not tested.

IARC:
Not listed.

OSHA:
Not regulated.

Other Toxicological Information

12.  Ecological Information

Ecotoxicological Information: No ecological information available.

Environmental Fate (Degradation, Transformation, and Persistence):
Bioconcentration is not expected to occur.

13.  DISPOSAL CONSIDERATIONS

Regulatory Information:
Not applicable.

Disposal Method:
Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
Dispose of by incineration following Federal, State, Local, or Provincial regulations.

14.  TRANSPORT INFORMATION

Proper Shipping Name: Does not meet the definition of a "hazardous material" for transportation purposes (U.S. DOT).
(Phenol Red, powder)

Hazard Class:
14. TRANSPORT INFORMATION (CONT.)

Subsidiary Hazards:
ID Number: 
Packing Group: 
Label Required: Not applicable.

15. REGULATORY INFORMATION

UNITED STATES:

TSCA:
This product is solely for research and development purposes only and may not be used, processed or distributed for a commercial purpose. It may only be handled by technically qualified individuals.

Prop 65 Listed Chemicals: PROP 65 PERCENT
No Prop 65 Chemicals.

No 313 Chemicals

CANADA:

DSL/NDSL:
Not determined.

COMPONENT            WHMIS Classification
PHENOL RED SODIUM SALT Not classified as hazardous.

EUROPEAN UNION:

PRODUCT RISK PHRASES: None assigned.
PRODUCT SAFETY PHRASES: None assigned.
PRODUCT CLASSIFICATION: Not classified.

Component          EINECS
PHENOL RED SODIUM SALT Not established.
16. OTHER INFORMATION

HMIS Rating 0-4:
FIRE:     Not determined.
HEALTH:  Not determined.
REACTIVITY: Not determined.

Abbreviations
N/A - Data is not applicable or not available
SARA - Superfund and Reauthorization Act
HMIS - Hazard Material Information System
WHMIS - Workplace Hazard Materials Information System
OSHA - Occupational Health and Safety Administration
IARC - International Agency for Research on Cancer
PROP 65 - California Safe Drinking Water and
          Toxic Enforcement Act of 1986
EINECS - European Inventory of Existing Commercial
          Chemical Substances

The above information was acquired by diligent search and/or investigation
and the recommendations are based on prudent application of professional
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