

MATERIAL SAFETY DATA SHEET

PHENOLPHTHALEIN
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 07/13/06
Replaces: 07/16/04
Printed: 07/13/06

1. PRODUCT DESCRIPTION

Product Name: Phenolphthalein
Product Code(s): 87-9910, 87-9920, 87-9940, 87-9942
Size: 25 g, 100 g, 125 g
Chemical Name: Phenolphthalein
CAS Number: 77-09-8
Formula: C₂₀H₁₄O₄
Synonyms: NCI-C55798; 3,3 bis(4-hydroxyphenyl)-1
(3H)-isobenzofuranone
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principal Hazardous Components: Phenolphthalein (77-09-8) 100%
TLV and PEL units: No information available

3. HAZARD IDENTIFICATION

Emergency Overview: White or slightly yellow crystals. When heated to decomposition it emits acrid smoke and irritating fumes.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water.

Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): Noncombustible

NFPA Rating: Health: 1
Fire: 1
Reactivity: 0

Extinguisher Media:

Use dry chemical, CO₂ or appropriate foam.

Flammable Limits in Air % by Volume: No information available

Autoignition Temperature: No information available

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Fine dust dispersed in air in

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sufficient concentration, and hazardous. Thermal decomposition produces acrid fumes.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Keep in tightly closed container, store in a cool, dry place. Do not breathe dust, get in eyes or on clothing.

Other Precautions: Wash thoroughly after handling.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type):

None needed under normal conditions of use with adequate ventilation.

NIOSH approved equipment should be worn if PELs are exceeded.

Ventilation:

Local Exhaust:	Preferred
Mechanical (General):	Acceptable
Special:	No
Other:	No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight:	318.3
Melting Point:	258-262°C (496-504°F)
Boiling Point:	No information available
Vapor Pressure:	No information available
Vapor Density (Air=1):	No information available
Specific Gravity (H ₂ O=1):	1.299
Percent Volatile by Volume:	0%
Evaporation Rate (H ₂ O=1):	No information available
Solubility in Water:	Slightly (4000mg/L at 20°C)
Appearance and Odor:	White or slightly yellow crystals

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: No information available

Incompatibility (Materials to Avoid): Strong oxidizing agents

Hazardous Decomposition Products: CO_x

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: ipr-rat LD₅₀: 500 mg/kg

Effects of Overexposure:

Acute: See section 3

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Chronic: Not listed as causing cancer by NTP, IARC or OSHA.
Conditions Aggravated by Overexposure: No information available
Target Organs: No information available
Primary Route(s) of Entry: Skin absorption

12. ECOLOGICAL DATA

EPA Waste Numbers: None

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable
Federal, State and Local regulations.
Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Not regulated by DOT

15. REGULATORY INFORMATION

Warning: This product contains phenolphthalein, a chemical known to the
state of California to cause cancer.
EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS	SARA Sec. 313		CERCLA	RCRA
	Sec. 302	Name	Chemical	Sec. 103	Sec.
	TPQ	List	Category	RQ lbs.	261.33
Phenolphthalein	No	No	No	No	No

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a
compilation of data drawn directly from various sources available to us.
Carolina Biological Supply makes no representation or guarantee as to
the suitability of this information to a particular application of the
substance covered in the Material Safety Data Sheet. Any employer must
carefully assess the applicability of any information contained herein
in regards to the particular use to which the employer puts the
material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Abstracts Service Number
CERCLA.....Comprehensive Environmental Response, Compensation, and
Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act