# Material Safety Data Sheet Phenolphthalein

ACC# 18390

## Section 1 - Chemical Product and Company Identification

MSDS Name: Phenolphthalein

Catalog Numbers: AC147710000, AC147711000, AC147715000, AC417180000, AC417180025, AC417181000, AC417185000, S76958, S76961, S93324, NC9052846, P79-100, P79-500, S71428 Synonyms: 3,3-Bis(4-Hydoroxyphenyl)-1(3H)-Isobenzofuranone; 3,3-Bis(p-Hydroxyphenyl)Phthalide; Alpha-Di(p-Hydroxyphenyl)phthalide Company Identification: Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410 For information, call: 201-796-7100 Emergency Number: 201-796-7100 For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
77-09-8	Phenolphthalein	100	201-004-7

Section 3 - Hazards Identification

### **EMERGENCY OVERVIEW**

Appearance: off-white crystalline powder.

**Caution!** Possible cancer hazard. May cause cancer based on animal data. May cause eye, skin, and respiratory tract irritation. May be harmful if swallowed. The toxicological properties of this material have not been fully investigated. **Target Organs:** None known.

### **Potential Health Effects**

Eye: May cause eye irritation.

**Skin:** May cause skin irritation. May be harmful if absorbed through the skin.

**Ingestion:** Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed. Ingestion may cause fever, blood pressure increase and other unspecified vascular effects. Major danger of overdosage is fluid and electrolyte deficits resulting from excessive laxative effect.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Chronic: Possible cancer hazard based on tests with laboratory animals.

Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid.

Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

**General Information:** 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. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion. **Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam. **Flash Point:** Not available.

Autoignition Temperature: Not available. Explosion Limits, Lower:Not available. Upper: Not available.

**NFPA Rating:** (estimated) Health: 1; Flammability: 1; Instability: 0

Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8. **Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

# Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use only in a chemical fume hood.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

# Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Phenolphthalein	none listed	none listed	none listed

OSHA Vacated PELs: Phenolphthalein: No OSHA Vacated PELs are listed for this chemical.

### **Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** 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.

## Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder Appearance: off-white Odor: odorless pH: Not available. Vapor Pressure: Negligible. Vapor Density: Not available. Evaporation Rate:Negligible. Viscosity: Not available. Boiling Point: Not available. Boiling Point: Not available. Freezing/Melting Point:258-263 deg C Decomposition Temperature:Not available. Solubility: Insoluble in water. Specific Gravity/Density:1.299 Molecular Formula:C20H14O4 Molecular Weight:318.0956

# Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Conditions to Avoid: Dust generation, excess heat. Incompatibilities with Other Materials: Strong oxidizing agents. Hazardous Decomposition Products: Carbon monoxide, carbon dioxide. Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 77-09-8: SM8380000 LD50/LC50: Not available.

Carcinogenicity:

CAS# 77-09-8:

- ACGIH: Not listed.
- California: carcinogen, initial date 5/15/98
- NTP: Suspect carcinogen
- IARC: Group 2B carcinogen

**Epidemiology:** Doses associated with fatalities have been 1.8 grams and 0.65-1.3 grams. **Teratogenicity:** No information found

# Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. **RCRA P-Series:** None listed.

RCRA U-Series: None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not regulated.	Not regulated.
Hazard Class:		
UN Number:		
Packing Group:		

# Section 15 - Regulatory Information

## **US FEDERAL**

#### TSCA

CAS# 77-09-8 is listed on the TSCA inventory.

- Health & Safety Reporting List
- None of the chemicals are on the Health & Safety Reporting List. Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule** 

None of the chemicals in this material have a SNUR under TSCA.

## **CERCLA Hazardous Substances and corresponding RQs**

### None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

#### None of the chemicals in this product have a TPQ. SARA Codes

CAS # 77-09-8: immediate.

**Section 313** No chemicals are reportable under Section 313.

### **Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 77-09-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

### California Prop 65

The following statement(s) is(are) made in order to comply with the California Safe Drinking Water Act:

WARNING: This product contains Phenolphthalein, a chemical known to the state of California to cause cancer. California No Significant Risk Level: None of the chemicals in this product are listed.

## European/International Regulations

## European Labeling in Accordance with EC Directives

Hazard Symbols:

Risk Phrases: R 22 Harmful if swallowed.

R 40 Limited evidence of a carcinogenic effect.

### Safety Phrases:

S 36/37 Wear suitable protective clothing and gloves. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). WGK (Water Danger/Protection)
 CAS# 77-09-8: 1
Canada - DSL/NDSL
 CAS# 77-09-8 is listed on Canada's DSL List.
Canada - WHMIS
 This product has a WHMIS classification of D2A.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all
 of the information required by those regulations.
Canadian Ingredient Disclosure List

# Section 16 - Additional Information

### MSDS Creation Date: 12/12/1997 Revision #6 Date: 10/20/2004

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.