

Phenolphthalein  
MSDS# 18390

Section 1 - Chemical Product and Company Identification

MSDS Name:

Phenolphthalein

Catalog Numbers:

14771-0000, 14771-1000, 14771-5000, 41718-0000, 41718-0025, 41718-1000,  
41718-5000, P/2400/48, P/2400/53, P/2400/68

Synonyms:

3,3-Bis(4-Hydroxyphenyl)-1(3H)-Isobenzofuranone;  
3,3-Bis(p-Hydroxyphenyl)Phthalide; Alpha-Di(p-Hydroxyphenyl)phthalide

Company Identification: Fisher Scientific UK

Bishop Meadow Road, Loughborough  
Leics. LE11 5RG

For information in Europe, call:(01509) 231166

Emergency Number, Europe:01509 231166

Section 2 - Composition, Information on Ingredients

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CAS#: 77-09-8  
Chemical Name: Phenolphthalein  
%: 100  
EINECS#: 201-004-7  
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Hazard Symbols:

XN

Risk Phrases:

22 40

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful if swallowed. Limited evidence of a carcinogenic effect. The toxicological properties of this material have not been fully investigated.

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. Ingestion may cause fever, blood pressure increase and other unspecified vascular effects.

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 at 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.

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

CAS# 77-09-8:

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  
Color: off-white  
Odor: odorless  
pH: Not available  
Vapor Pressure: Negligible.  
Viscosity: Not available  
Boiling Point: Not available  
Freezing/Melting Point: 258-263 deg C  
Autoignition Temperature: Not available.  
Flash Point: Not available  
Explosion Limits: Lower:Not available  
Explosion Limits: Upper:Not available  
Decomposition Temperature: Not available  
Solubility in water: 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  
Not available  
Carcinogenicity: Phenolphthalein -  
California: carcinogen, initial date 5/15/98  
NTP: Suspect carcinogen  
IARC: Group 2B carcinogen

Other: The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

IATA

Shipping Name: Not regulated as a hazardous material  
Hazard Class:

UN Number:  
Packing Group:  
IMO Shipping Name: Not regulated as a hazardous material  
Hazard Class:  
UN Number:  
Packing Group:

RID/ADR Shipping Name: Not regulated as a hazardous material  
Hazard Class:  
UN Number:  
Packing Group:

Section 15 - Regulatory Information  
European/International Regulations

European Labeling in Accordance with EC Directives  
Hazard Symbols: XN  
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  
CAS# 77-09-8 is listed on Canada's DSL List  
US Federal  
TSCA  
CAS# 77-09-8 is listed on the TSCA Inventory.

Section 16 - Other 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 the company 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 the company has been advised of the possibility of such damages.

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