

# SAFETY DATA SHEET

Creation Date 25-Nov-2009

Revision Date 24-May-2017

**Revision Number** 2

# 1. IdentificationProduct NamePhenolphthaleinCat No. :P79-100; P79-500Synonyms3,3-Bis(4-Hydoroxyphenyl)-1(3H)-Isobenzofuranone; 3,3-Bis(p-Hydroxyphenyl)PhthalideRecommended Use<br/>Uses advised againstLaboratory chemicals.<br/>Not for food, drug, pesticide or biocidal product useDetails of the supplier of the safety data sheet

### <u>Company</u>

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

### **Emergency Telephone Number**

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

## 2. Hazard(s) identification

### Classification

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

Germ Cell Mutagenicity
Carcinogenicity
Reproductive Toxicity
Specific target organ toxicity - (repeated exposure)
Target Organs - Kidney.

Category 2 Category 2 Category 2

Category 2

### Label Elements

### **Signal Word** Danger

### **Hazard Statements**

Suspected of causing genetic defects Suspected of causing cancer Suspected of damaging fertility May cause damage to organs through prolonged or repeated exposure



### Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Do not breathe dust/fume/gas/mist/vapors/spray **Response** IF exposed or concerned: Get medical attention/advice **Storage** Store locked up **Disposal** Dispose of contents/container to an approved waste disposal plant **Hazards not otherwise classified (HNOC)** 

WARNING! This product contains a chemical known in the State of California to cause cancer.

# 3. Composition / information on ingredients

Component	CAS-No	Weight %
Phenolphthalein	77-09-8	>95

4. First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.			
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain medical attention.			
Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.				
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically			
	5. Fire-fighting measures			
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
Unsuitable Extinguishing Media	No information available			
Flash Point Method -	No information available No information available			
Autoignition Temperature Explosion Limits Upper	No data available			

**NFPA** 

Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)

### **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. Thermal decomposition can lead to release of irritating gases and vapors.

Health 2 *	Flammability 1	Instability 0	Physical hazards N/A			
		elease measures				
Personal Precautions		tion. Use personal protective equipr	ment. Evacuate personnel to			
Environmental Precautions	Environmental Precautions safe areas. Avoid dust formation. Should not be released into the environment. See Section 12 for additional ecological information.					
Methods for Containment and Clea Up	an Sweep up or vacuum up formation.	spillage and collect in suitable cont	tainer for disposal. Avoid dust			
	7. Handling	and storage				
Handling	Use only under a chemic	cal fume hood. Wear personal prote ing. Avoid dust formation. Do not br				
Storage	Keep containers tightly c	losed in a dry, cool and well-ventila	ited place.			
	•	s / personal protectior				
Exposure Guidelines		ntain any hazardous materials with egion specific regulatory bodies.	occupational exposure			
Engineering Measures	Use only under a chemic are close to the workstati	cal fume hood. Ensure that eyewash ion location.	n stations and safety showers			
Personal Protective Equipment						
Eye/face Protection		tive eyeglasses or chemical safety on the section regulations in 29 CFR 1910				
Skin and body protection	Wear appropriate protect	tive gloves and clothing to prevent s	skin exposure.			
Respiratory Protection	EN 149. Use a NIOSH/M	tor regulations found in 29 CFR 19 ISHA or European Standard EN 14 eded or if irritation or other sympton	9 approved respirator if			
Hygiene Measures	Handle in accordance wi	th good industrial hygiene and safe	ty practice.			
C	9. Physical and c	hemical properties				

Physical State	Soli
Appearance	Off-
Odor	Odd
Odor Threshold	No i
рН	No i
Melting Point/Range	258
Boiling Point/Range	No i
Flash Point	No i
Evaporation Rate	Not
Flammability (solid,gas)	No i
Flammability or explosive limits	
Upper	No
Lower	No
Vapor Pressure	neg
Vapor Density	Not
Specific Gravity	No i
Solubility	Insc
Partition coefficient; n-octanol/water	No
Autoignition Temperature	
Decomposition Temperature	No i
Viscosity	Not
Molecular Formula	C20
Molecular Weight	318

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No information available Not applicable C20 H14 O4 318.32

# 10. Stability and reactivity

Reactive Hazard	zard None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.		
Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Product	ts Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		
	11. Toxicological information		
Acute Toxicity			
Product Information	See actual entry in RTECS for complete information		

Product Information Component Informati		See actual entry in	RTECS for compl	ete information.		
Toxicologically Syner Products		No information ava	ilable			
Delayed and immedia	te effects as we	ell as chronic effe	cts from short an	d long-term expo	sure	
Irritation		May cause eye, skin, and respiratory tract irritation				
Sensitization		No information available				
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.				
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico

	Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
ſ	Phenolphthalein	77-09-8	Group 2B	Reasonably Anticipated	Not listed	Х	Not listed

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans

NTP: (National Toxicity Program)	Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans NTP: (National Toxicity Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human
Mutagenic Effects	<i>Carcinogen</i> Mutagenic effects have occurred in humans.
Reproductive Effects	Experiments have shown reproductive toxicity effects on laboratory animals.
Developmental Effects	Possible risk of harm to the unborn child.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known Kidney
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available

### **Endocrine Disruptor Information**

Component	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Phenolphthalein	Group III Chemical	Not applicable	Not applicable
Other Adverse Effects	See actual entry in RTECS for complete information.		

	12. Ecologica	Il information		
Ecotoxicity Do not empty into drains.				
Persistence and Degradability Insoluble in water Persistence is unlikely				
Bioaccumulation/ Accumulation	Bioaccumulation/ Accumulation No information available.			
Mobility Is not likely mobile in the environment due its low water solubility.				
Componen	t	log Pow		
Phenolphthal	ein	2.41		

# 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
DOT TDG IATA	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Phenolphthalein	Х	Х	-	201-004-7	-		Х	Х	Х	Х	Х
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.

XU - 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
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C A		313	•
JН	кА	313	•

pplicable	SARA 313 Not applicable
CAS-No Weight % SARA 313 - Threshold Values %	Component
77-09-8 >95 0.1	Phenolphthalein
	Phenolphthalein

SARA 311/312 Hazard Categories Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Haz Reactive Hazard	zard	No Yes No No No
CWA (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 contains the following proposition 65 chemicals

Component	CAS-No	California F	California Prop. 65 Pr		65 NSRL	Category
Phenolphthalein	77-09-8	Carcino	Carcinogen		-	Carcinogen
U.S. State Right-to-Know	v				-	
Regulations						
Component	Massachusetts	New Jersey	Penns	ylvania	Illinois	Rhode Island
Phenolphthalein	-	Х		-	Х	-

### **U.S. Department of Transportation**

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

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

This product does not contain any DHS chemicals.

### Other International Regulations

Mexico - Grade

No information available

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	25-Nov-2009 24-May-2017 24-May-2017 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**