

Version: 1.2 Revision Date: 04-01-2021

SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

1. Identification

Product identifier: Phenolphthalein

Other means of identification Product No.: 2870

Recommended restrictions

Recommended use: For Laboratory, Research or Manufacturing Use. **Restrictions on use:** Not determined.

Details of the supplier of the safety data sheet

Company Name: Address:	Avantor Performance Materials, LLC 100 Matsonford Rd, Suite 200 Radnor, PA 19087
Telephone:	Customer Service: 855-282-6867
Contact Person: E-mail:	Product Information Compliance info@avantormaterials.com

Emergency telephone number:

CHEMTREC: 1-800-424-9300 within US and Canada (24 hrs/day, 7 days/week)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1B
Toxic to reproduction	Category 2

Unknown toxicity - Health

Acute toxicity, oral	100 %
Acute toxicity, dermal	100 %
Acute toxicity, inhalation, dust	100 %
or mist	

Label Elements

Hazard Symbol:



Signal Word:	Danger
Hazard Statement:	Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May form combustible dust concentrations in air.
Precautionary Statements	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF exposed or concerned: Get medical advice/attention.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

3. Composition/information on ingredients

Substances

Chemical Identity	CAS number	Content in percent (%)*	
Phenolphthalein	77-09-8	100%	
* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.			

4. First-aid measures

General information:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.	
Ingestion:	Rinse mouth thoroughly. Get medical attention if symptoms occur.	
Inhalation:	Move to fresh air. Get medical attention if symptoms persist.	
Skin Contact:	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.	
Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause irritation to skin, eyes and respiratory tract.	
Hazards:	None known.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Treat symptomatically. Symptoms may be delayed.	
5. Fire-fighting measures		



General Fire Hazards:	Powdered material may form explosive dust-air mixtures.	
Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media:	Water spray, fog, CO2, dry chemical, or regular foam.	
Unsuitable extinguishing media:	None known.	
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed. Dust clouds may be explosive under certain conditions. Contact with strong oxidizers may cause fire.	
Special protective equipment and	d precautions for firefighters	
Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.	
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.	
6. Accidental release measures	5	
Personal precautions, protective equipment and emergency procedures:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.	
Methods and material for containment and cleaning up:	Avoid dust formation. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.	
Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.	
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling:	Avoid generation and spreading of dust. Ground and bond container and receiving equipment. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.	
Conditions for safe storage, including any incompatibilities:	Keep containers tightly closed. Store in cool, dry place. Store in a well- ventilated place.	

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.



Appropriate Engineering Controls	No data available.	
Individual protection measures,	such as personal protective equipment	
General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof ventilation equipment.	
Eye/face protection:	Use tight fitting goggles if dust is generated.	
Skin Protection Hand Protection:	Wear protective gloves.	
Other:	Wear suitable protective clothing.	
Respiratory Protection:	In case of inadequate ventilation use suitable respirator.	
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.	

9. Physical and chemical properties

Appearance

Physical state:	Solid
Form:	Powder
Color:	White to pale yellow
Odor:	Odorless
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	258 °C
Initial boiling point and boiling range:	657 °C
Flash Point:	No data available.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explose	sive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	1.3 g/ml (20 °C)
Relative density:	1.3 (20 °C)
Solubility(ies)	
Solubility in water:	0.4 g/l (23 °C) Slightly soluble
Solubility (other):	ether: Approximate 0.01 g/ml acetone: Very soluble chloroform: Soluble ethanol: Very soluble



Partition coefficient (n-octanol/w Auto-ignition temperature: Decomposition temperature: Viscosity:	ethyl ether: Soluble petroleum ether: Insoluble toluene: Soluble 2.41 397 °C No data available. No data available.	
Other information Molecular weight:	318.31 g/mol (C ₂₀ H ₁₄ O ₄)	
10. Stability and reactivity		
Reactivity:	No dangerous reaction known under conditions of normal use.	
Chemical Stability:	Material is stable under normal conditions.	
Possibility of hazardous reactions:	Hazardous polymerization does not occur.	
Conditions to avoid:	Contact with incompatible materials. Heat, sparks, flames. Avoid dust formation.	
Incompatible Materials:	Strong oxidizing agents.	
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.	
11. Toxicological information		
Information on likely routes of e Inhalation:	exposure May cause irritation to the respiratory system.	
Skin Contact:	Prolonged skin contact may cause temporary irritation.	
Eye contact:	May cause temporary eye irritation.	
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May cause irritation of the gastrointestinal tract.

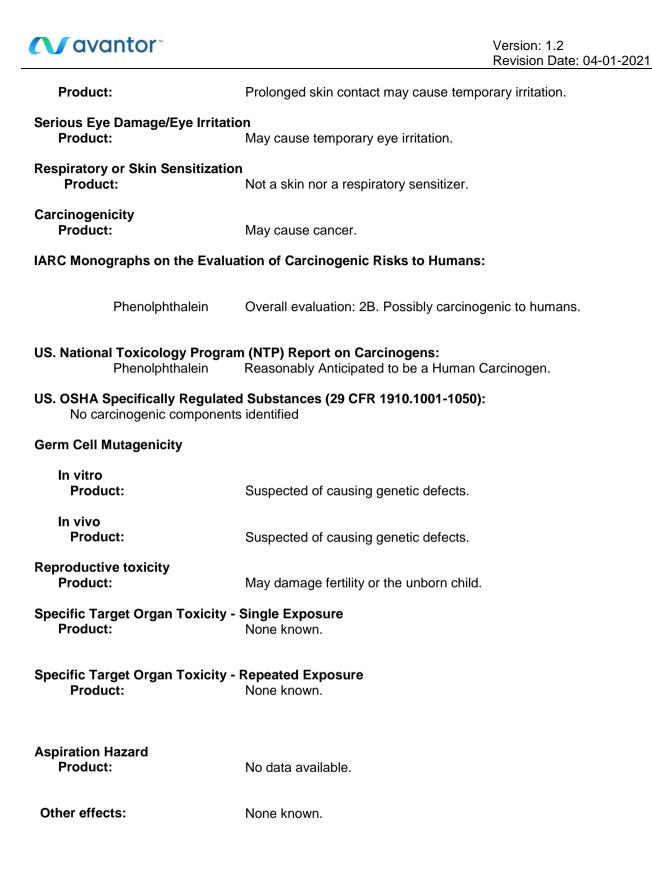
Information on toxicological effects

Ingestion:

Acute toxicity (list all possible routes of exposure)

Oral Product:	No data available.
Dermal Product:	No data available.
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.

Skin Corrosion/Irritation



12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:

No data available.



Aquatic Invertebrates Product:	No data available.
Specified substance(s): Phenolphthalein	EC 50 (Daphnia magna, 48 h): > 100 mg/l
Chronic hazards to the aquation	c environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	There are no data on the degradability of this product.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	F) No data available on bioaccumulation.
Partition Coefficient n-octanol / w Product:	vater (log Kow) Log Kow: 2.41
Mobility in soil:	No data available.
Other adverse effects:	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
13. Disposal considerations	
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated Packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated.

IMDG

Not regulated.

ΙΑΤΑ

Not regulated.



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15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Germ Cell Mutagenicity Carcinogenicity Reproductive toxicity

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Phenolphthalein	10000 lbs.

SARA 313 (TRI Reporting)

	Reporting	Reporting threshold for
	threshold for	manufacturing and
Chemical Identity	other users	processing
Phenolphthalein	10000 lbs.	25000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer. Phenolphthalein Carcinogenic.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Phenolphthalein

- US. Massachusetts RTK Substance List No ingredient regulated by MA Right-to-Know Law present.
- US. Pennsylvania RTK Hazardous Substances No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.



International regulations

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol Not applicable

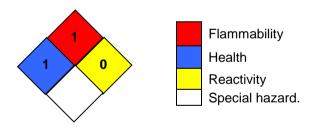
Inventory Status:

Australia AICS: Canada DSL Inventory List: China Inv. Existing Chemical Substances: Japan (ENCS) List: Japan ISHL Listing: Korea Existing Chemicals Inv. (KECI): Mexico INSQ: New Zealand Inventory of Chemicals: **Philippines PICCS:** Taiwan Chemical Substance Inventory: US TSCA Inventory: EINECS, ELINCS or NLP:

On or in compliance with the inventory On or in compliance with the inventory

16.Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date:	04-01-2021
Revision Information:	Not relevant.
Version #:	1.2
Source of information:	Sources of information used in preparing this SDS included one or more of the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other manufacturer's SDSs and other sources, as appropriate.

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Further Information:	No data available.
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