

# **SAFETY DATA SHEET**

Version 6.4 Revision Date 02.09.2021 Print Date 29.01.2022

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product identifiers**

Product name:PhenolphthaleinProduct Number:105945Brand:Sigma-AldrichIndex-No.:604-076-00-1CAS-No.:77-09-8

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

#### 1.3 Details of the supplier of the safety data sheet

Company	:	MilliporeSigma Canada Ltd 2149 WINSTON PARK DRIVE OAKVILLE ON L6H 6J8 CANADA
Telephone Fax	:	+1 905 829-9500 +1 905 829-9292
Emergency telephone	•	+1 903 029-9292
Emergency Phone #	:	800-424-9300 CHEMTREC (USA)

hone # : 800-424-9300 CHEMTREC (US +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture GHS Classification in accordance with Hazardous Products Regulations (HPR)

(SOR/2015-17)

Skin irritation (Category 2), H315 Germ cell mutagenicity (Category 2), H341 Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 2), H361

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 GHS Label elements, including precautionary statements

Pictogram



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1.4

Page 1 of 9

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Signal word	Danger
Hazard statement(s) H315 H341 H350 H361	Causes skin irritation. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362 + P364 P405	Take off contaminated clothing and wash it before reuse. Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

- none

## SECTION 3: Composition/information on ingredients

## 3.1 Substances

Synonyms	: 3,3-Bis(	4-hydroxyphenyl)-1(3H)-isobenz	ofuranone
Formula Molecular weight CAS-No. EC-No. Index-No.	: C <sub>20</sub> H <sub>14</sub> : 318.32 : 77-09-8 : 201-004 : 604-076	g/mol I-7	
Component		Classification	Concentration *
phenolphthalein			
		Skin Irrit. 2; Muta. : Carc. 1B; Repr. 2; H H341, H350, H361	
* Weight %			· · · · · · · · · · · · · · · · · · ·

For the full text of the H-Statements mentioned in this Section, see Section 16.

Sigma-Aldrich - 105945

Page 2 of 9



## SECTION 4: First aid measures

## 4.1 Description of first-aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given. For this substance/mixture no limitations of extinguishing agents are given.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides Not combustible. Ambient fire may liberate hazardous vapours.

#### 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

## 5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Sigma-Aldrich - 105945

Page 3 of 9



## **SECTION 6:** Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
- **6.2 Environmental precautions** Do not let product enter drains.
- **6.3 Methods and materials for containment and cleaning up** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- **6.4 Reference to other sections** For disposal see section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture.

#### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

#### Storage class

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

## 8.2 Exposure controls

## Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Sigma-Aldrich - 105945

Page 4 of 9



## Personal protective equipment

## Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

## **Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

## **Body Protection**

protective clothing

## **Respiratory protection**

required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

## **Control of environmental exposure**

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Color: white
b)	Odor	odorless
c)	Odor Threshold	Not applicable
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 261 - 263 °C (502 - 505 °F) - lit.
f)	Initial boiling point and boiling range	> 450 °C > 842 °F at 1,013 hPa - OECD Test Guideline 103

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Page 5 of 9

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g)	Flash point	()Not applicable	
h)	Evaporation rate	No data available	
i)	Flammability (solid, gas)	The product is not flammable Flammability (solids)	
j)	Upper/lower flammability or explosive limits	No data available	
k)	Vapor pressure	< 0.1 hPa at 50 °C (122 °F) - OECD Test Guideline 104	
I)	Vapor density	No data available	
m)	Density	No data available	
	Relative density	ca.1.29 at 20.6 °C (69.1 °F) - OECD Test Guideline 109	
n)	Water solubility	0.00336 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - slightly soluble	
o)	Partition coefficient: n-octanol/water	log Pow: 0.9 at 25 °C (77 °F) - OECD Test Guideline 117 - Bioaccumulation is not expected.	
p)	Autoignition temperature	397 °C (747 °F) - Relative self-ignition temperature for solids	
q)	Decomposition temperature	No data available	
r)	Viscosity	No data available	
s)	Explosive properties	No data available	
t)	Oxidizing properties	none	
Other safety information			
	Curface tension	71.9  mN/m at $20.90 (69.95)$ OFCD Test Guideline 115	

Surface tension

71.8 mN/m at 20 °C (68 °F) - OECD Test Guideline 115

## SECTION 10: Stability and reactivity

## **10.1 Reactivity**

9.2

No data available

## 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

## **10.3 Possibility of hazardous reactions** Violent reactions possible with:

Strong oxidizing agents

## **10.4 Conditions to avoid**

no information available

- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** In the event of fire: see section 5

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Page 6 of 9

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## SECTION 11: Toxicological information

## **11.1 Information on toxicological effects**

## Acute toxicity

Oral: No data available Inhalation: No data available Dermal: No data available

## Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE) Result: irritating - 42 min (OECD Test Guideline 439)

## Serious eye damage/eye irritation

Eyes - In vitro study Result: non-corrosive - 4 h (OECD Test Guideline 437)

## **Respiratory or skin sensitization**

Local lymph node assay (LLNA) - Mouse Result: Not a skin sensitizer. (OECD Test Guideline 429)

## Germ cell mutagenicity

Suspected of causing genetic defects. Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative

## Carcinogenicity

Presumed to have carcinogenic potential for humans

## **Reproductive toxicity**

Suspected of damaging fertility.

**Specific target organ toxicity - single exposure** No data available

Specific target organ toxicity - repeated exposure No data available

## Aspiration hazard

No data available

## **11.2 Additional Information**

Repeated dose toxicity - Rat - male and female - Oral - 13 Weeks - NOAEL (No observed adverse effect level) - 800 mg/kg

## RTECS: SM8380000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After uptake of large quantities:

Nausea Vomiting Gastrointestinal disturbance

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Page 7 of 9



The substance has a laxative effect.

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Stomach - Irregularities - Based on Human Evidence

## SECTION 12: Ecological information

## 12.1 Toxicity

Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - > 3.33 mg/l - 72 h (OECD Test Guideline 201)
	static test NOEC - Desmodesmus subspicatus (green algae) - 0.57 mg/l - 72 h (OECD Test Guideline 201)

## 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 76 % - Readily biodegradable. (OECD Test Guideline 301F) Remarks: The 10 day time window criterion is not fulfilled.

#### **12.3 Bioaccumulative potential** No data available

#### **12.4 Mobility in soil** No data available

#### 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety asses

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects** 

No data available

## SECTION 13: Disposal considerations

## **13.1** Waste treatment methods

## Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned

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Page 8 of 9



containers like the product itself. See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

#### **SECTION 14: Transport information**

TDG

Not regulated as a dangerous good

#### IMDG

Not dangerous goods

## ΙΑΤΑ

Not dangerous goods

## **Further information**

Not classified as dangerous in the meaning of transport regulations.

## **SECTION 15: Regulatory information**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

## **SECTION 16: Other information**

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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Version: 6.4

Revision Date: 02.09.2021

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Sigma-Aldrich - 105945

Page 9 of 9

