

Issue date:03/03/2020

Revision date: 03/03/2025

Version: 1.0

SECTION 1: Identification	
1.1. Product identifier	
Trade name	: PHENOLPHTHALEIN
Chemical name	: phenolphthalein
IUPAC name	. 3,3-bis(4-hydroxyphenyl)-1,3-dihydro-2-benzofuran-1-one
EC-No.	: 201-004-7
EC Index-No.	: 604-076-00-1
CAS-No.	: 77-09-8
Product code	: 116060xxx
Formula	: C20H14O4
1.2. Relevant identified uses of th	he substance or mixture and uses advised against
Recommended uses and restrictions	: For laboratory use only
1.3. Supplier's details	
Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.	
1.4. Emergency telephone number	
Emergency number	: +27 11 452 1116
Emergency number	. +27 11 452 1110
SECTION 2: Hazards identifica	tion
2.1. Classification of the substan	
Germ cell mutagenicity, Category 2 Carcinogenicity, Category 1B Full text of H statements : see section 16	H341 H350
2.2. Label elements	
Labelling according to the United Nation	
Hazard pictograms (GHS-ZA)	
	GHS08
Signal word (GHS-ZA)	: Danger
Hazard statements (GHS-ZA)	: H341 - Suspected of causing genetic defects. H350 - May cause cancer.
Precautionary statements (GHS-ZA)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P308+P313 - IF exposed or concerned: Get medical advice/attention. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3. Other hazards	
Adverse physicochemical, human health environmental effects	and : May cause cancer, Suspected of causing genetic defects.
SECTION 3: Composition/infor	rmation on ingredients
3.1. Substances	
UPAC name	: 3,3-bis(4-hydroxyphenyl)-1,3-dihydro-2-benzofuran-1-one
Chemical name	: phenolphthalein
Substance identification and as: Sac assti	tion 1.1

Substance identification codes: See section 1.1

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According to SANS 10234:2008 and SANS 11014:2010

	Product identifier	%	Classification according to the United Nations GHS
phenolphthalein (Main constituent)	(CAS-No.) 77-09-8	≥ 98	Muta. 2, H341 Carc. 1B, H350
Ill text of H-statements: see section 16			
2. Mixtures			
ot applicable			
ECTION 4: First aid measures			
1. Description of first aid measures			
rst-aid measures general	: IF exposed or concerned: Get medica	al advice/attention.	
rst-aid measures after inhalation	: Remove person to fresh air and keep	comfortable for brea	athing.
irst-aid measures after skin contact	: Wash skin with plenty of water.		
irst-aid measures after eye contact	: Rinse eyes with water as a precaution	າ.	
rst-aid measures after ingestion	: Call a poison center or a doctor if you	feel unwell.	
2. Most important symptoms and effe	cts, both acute and delayed		
o additional information available			
	I attention and special treatment neede	d	
eat symptomatically.			
ECTION 5: Firefighting measures			
1. Extinguishing media			
uitable extinguishing media	: Water spray. Dry powder. Foam.		
2. Special hazards arising from the su	bstance or mixture		
azardous decomposition products in case of e	: Toxic fumes may be released.		
3. Advice for firefighters			
rotection during firefighting	: Do not attempt to take action without	suitable protective e	quipment. Self-contained breathing
	apparatus. Complete protective clothi	ng.	
ECTION 6: Accidental release mea	sures		
	juipment and emergency procedures		
1. Personal precautions, protective eq			
1. Personal precautions, protective equilibrium of additional information available		h suitable protective	e equipment may intervene.
Personal precautions, protective equivalent o additional information available 1.1. For non-emergency personnel mergency procedures	uipment and emergency procedures	h suitable protective	equipment may intervene.
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According to SANS 10234:2008 and SANS 11014:2010

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8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measure	es, such as personal protective equipment (PPE)
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Dust production: dust mask with filter type P1. In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



Exposure limit values for the other components 8.4.

No additional information available

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

5.1. Information on basic physical and c	ne	inical properties
Physical state	:	Solid
Appearance	:	Fine white powder.
Molecular mass	:	318.32 g/mol
Colour	:	white.
Odour	:	No data available
Odour threshold	:	No data available
рН	:	No data available
pH solution	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	No data available
Melting point	:	260 °C
Freezing point	:	Not applicable
Boiling point	:	557.8
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	No data available
Vapour pressure at 50 °C	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Relative density of saturated gas/air mixture	:	No data available
Density	:	1.277 g/cm3 (32 °C)
Relative gas density	:	No data available
Solubility	:	Water: 0.4 g/l Ethanol: Very Soluble Ether: Very Soluble
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Partition coefficient n-octanol/water (Log Kow)	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	Not applicable
Lower explosive limit (LEL)	:	No data available
		Number of the second states of

: No data available

Upper explosive limit (UEL)

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According to SANS 10234:2008 and SANS 11014:2010

9.2.	Other information			
No add	itional information available			
SECT	ION 10: Stability and reactivity			
10.1.	Reactivity			
The pro	The product is non-reactive under normal conditions of use, storage and transport.			
10.2.	Chemical stability			
Stable u	under normal conditions.			
10.3.	Possibility of hazardous reactions			
No dan	gerous reactions known under normal conditions of use.			
10.4.	Conditions to avoid			
None under recommended storage and handling conditions (see section 7).				
10.5.	Incompatible materials			
No add	itional information available			
10.6.	Hazardous decomposition products			

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information			
12.1. Toxicity			
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.		
Hazardous to the aquatic environment, short- term (acute)	: Not classified		
Hazardous to the aquatic environment, long- term (chronic)	: Not classified		
12.2. Persistence and degradability			
PHENOLPHTHALEIN (77-09-8)			
Persistence and degradability No additional information available			
12.3. Bioaccumulative potential			
PHENOLPHTHALEIN (77-09-8)			
Bioaccumulative potential	No additional information available		
12.4. Mobility in soil			
PHENOLPHTHALEIN (77-09-8)			
Mobility in soil	No additional information available		
12.5. Other adverse effects			
Ozone	: Not classified		
Other adverse effects : No additional information available			

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information In accordance with SANS / IMDG / IATA

SANS	IMDG	ΙΑΤΑ		
14.1. UN number				
Not regulated for transport				
14.2. Proper Shipping Name	14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)	14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable		
Not applicable	Not applicable	Not applicable		
14.4. Packing group				
Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No		
	:			
No supplementary information available				

14.6. Special precautions for user

- SANS

No data available

- IMDG

No data available

- IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information			
15.1. Safety, health, and environ	1. Safety, health, and environmental national regulations specific for the product		
Regulatory reference : SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.			
SECTION 16: Other informat	ion		
Issue date	: 03/03/2020		
Revision date	: 03/03/2025		

Full text of H-statements:

H341	Suspected of causing genetic defects.
H350	May cause cancer.

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.