

SAFETY DATA SHEET (SDS)


Phenolphthalein, 1%

Issue date: 12-08-2020

Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	Phenolphthalein, 1% solution in ethanol
Product Codes:	SI13.5, SI13.5/500
Other means of identification:	
Chemical formula, alternative names:	$C_8H_4O_2(C_6H_4OH)_2$
Recommended use of the chemical and restrictions on use	
Recommended Use:	For laboratory use only. Acid/base (pH) indicator
Suppliers name, address and phone number	
Suppliers Name:	Southern Biological
Suppliers ABN:	94 630 703 810
Suppliers Address:	1/44 Rushdale Street Knoxfield Victoria 3180 Australia
Suppliers Phone No.:	1300 138 561
Suppliers Fax No.:	+613 9753 3896
Emergency Phone number (BH)	1300 138 561

Section 2: Hazard Identification

Classification of the Hazardous Chemical	
Hazard Category	Flammable Liquid Category 2, Serious eye irritation Category 2A, Carcinogenicity Category 1B, Germ Cell Mutagenicity Category 2, Reproductive Toxicity Category 2
Label elements	
Hazard Pictograms:	
Signal Word:	Danger
Hazard Statements:	Highly flammable liquid and vapour Causes serious eye irritation May cause cancer Suspected of causing genetic defects Suspected of damaging fertility

Precautionary Statements:	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest.
Other Hazards	
Results of PBT and vPvB assessment:	PBT: Not applicable VPvB: Not applicable

Section 3: Composition/information on ingredients

Ingredients			
Name	CAS	Proportion	Hazard Class
Ethanol	64-17-5	70%	
Phenolphthalein	77-09-8	1%	Carcinogenicity Category 1B, Germ Cell Mutagenicity Category 2, Reproductive Toxicity Category 2
Water	7732-18-5	29%	None

Section 4: First Aid Measures

General Information	
After Inhalation:	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a doctor.
After skin contact:	Wash with water and soap and rinse thoroughly. If skin irritation occurs, seek medical advice.
After eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After swallowing:	Do not induce vomiting. Wash out mouth with water. Obtain emergency medical attention. Call a POISON CENTRE or doctor if you feel unwell.
Information for doctor:	
Most important symptoms and effects both acute and delayed:	Treat symptomatically.
Indications of any immediate medical attention and special treatment needed	No further relevant information available.

Section 5: Firefighting measures

Extinguishing media	
Suitable extinguishing agents:	Use dry chemical, CO ₂ or appropriate foam.
Special hazards arising for the substance or mixture:	This product is highly flammable. Vapours are heavier than air and will "travel" to low-level areas, eg sumps, drains etc and flashback. Precautions should be taken to eliminate the build-up of explosive mixtures.
Advice for firefighters	
	This product is highly flammable. Vapours are heavier than air and will "travel" to low-level areas, eg sumps, drains etc and flashback. Precautions should be taken to eliminate the build-up of explosive

	mixtures.
Protective equipment:	Do not enter the fire area without proper protective equipment including respiratory equipment. Firefighter should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode.

Section 6: Accidental release measures

General Information	
Personal precautions, protective equipment and emergency procedures:	Should not be handled by pregnant women. Women of reproductive age should avoid handling the chemical. Follow personal protective equipment recommendations found in Section 8 of this SDS. Ventilate the contaminated area. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation. Isolate area. Keep unnecessary personnel away. Ventilate the area by opening door and/or turning on fans and blowers. Prevent the spread of any spill to minimise harm to human health and the environment if safe to do so. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.
Environmental precautions:	Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters.
Methods and material for containment and cleaning up:	Dispose of contaminating material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on protective equipment. See Section 13 for disposal information.

Section 7: Handling and Storage

General Information	
Precautions for safe handling:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
Information about fire – and explosion protection:	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Conditions for safe storage, including any incompatibilities.	
Storage:	Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed in a cool, well-ventilated place.
Requirements to be met by storerooms and receptacles:	Refer to Code of practice for the storage and handling of dangerous goods.
Information about storage in one common storage facility:	Refer to Code of practice for the storage and handling of dangerous goods.
Further information about storage conditions:	Keep container tightly sealed. Keep out of direct sunlight.

Specific end use(s):	No further relevant information available.
----------------------	--

Section 8: Exposure controls/personal protection.

General information			
Additional information about design of technical facilities:		No further data: see section 7	
Control parameters:			
Ingredients with limit values that require monitoring at the workplace:			
Name	STEL	TWA	Footnote
Ethanol	NA	1880mg/m ³ 1000 ppm	
Additional information		The lists valid during the making were used as basis.	
Exposure Controls:			
General protective and hygienic measures:		<p>Use only in systems, processes and procedures in which effective ventilation has been provided to keep airborne concentration below exposure limits.</p> <p>Keep away from foodstuffs, beverages and feed.</p> <p>Immediately remove all soiled and contaminated clothing</p> <p>Wash hands before breaks and at the end of work.</p> <p>Avoid contact with eyes.</p>	
Respiratory protection:		<p>If engineering controls are not effective in controlling airborne exposure then a supplied air respirator should be used. Reference should be made to AS/NZS 1715 Selection, use and maintenance of respiratory protective equipment, in order to make any necessary changes for individual circumstances.</p>	
Clothing / Foot-wear and equipment		No special requirements.	
Protection of hands:		PVC or rubber gloves	
Eye protection:		Tightly sealed goggles	
Skin protection:		Laboratory Coat	

Section 9: Physical and chemical properties

Appearance:	
Form:	Liquid
Colour:	Clear with precipitate
Odour:	Not determined
Odour Threshold:	Not determined
pH value:	Not determined
Change in Condition:	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined

Flash point:	13°C
Flammability (solid / gaseous)	Not determined
Ignition Temperature	
Decomposition temperature:	Not determined
Self-igniting:	Not determined
Danger of explosion:	Vapours present an explosion hazard.
Explosion limits	
Lower:	Not determined
Upper:	Not determined
Vapour pressure:	Not determined
Density:	Not determined
General Info	
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in/ Miscibility with water:	Soluble
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	Not determined
Other information:	Not determined

Section 10: Stability and reactivity

Reactivity	
General	No further relevant information available.
Chemical Stability	
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	Sparks and sources of ignition
Incompatible materials:	Oxidising agents, sulphuric acid, nitric acid
Hazardous decomposition products:	None known

Section 11: Toxicological information

Information on toxicological effects	
General	Acute toxicity

Primary irritant effect:	
Inhalation:	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. High concentrations may cause CNS symptoms similar to "Ingestion" section below.
Skin contact:	May cause redness, itching and irritation.
Eye exposure:	May cause eye irritation, tearing, stinging, blurred vision, and redness.
Ingestion:	Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Ingestion of large quantities may depress the central nervous system. Signs and symptoms are similar to those of alcohol intoxication. Phenolphthalein may have a laxative affect if swallowed.
Chronic Toxicity:	
General	Prolonged or repeated ingestion or inhalation may cause degenerative changes in the liver, kidneys, hair, gastrointestinal tract and heart muscle. Carcinogenicity: Phenolphthalein [77-09-8] is evaluated by the IARC Monographs (Vol.76;2000) as Group 2B. Possibly carcinogenic to humans. Mutagenicity: Evidence of mutagenic effects.

Section 12. Ecological information

Toxicity	
Aquatic toxicity:	No further relevant information available.
Persistence and degradability:	No further relevant information available.
Behaviour in environmental systems	
Bio-accumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information	
Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable
Other adverse effects:	No further relevant information available.

Section 13. Ecological information

Waste treatment methods	
Recommendation	Prevent this material from entering waterways, drains and sewers. Comply with official regulations.

Uncleaned packaging:	
Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Water, if necessary, together with cleansing agents.

Section 14. Transport information

General	UN-Number: ADGC 1170 UN proper shipping name ADGC Ethanol solution (Ethyl Alcohol Solution) Class: ADGC 3 Packing Group: ADGC III Environmental Hazards: Not applicable Special precautions for user: Not applicable
---------	--

Section 15. Regulatory Information

Safety health and environmental regulations/legislation specific for the substance or mixture	
Australian Inventory of Chemical Substances:	Substances are listed.
Standard for the Uniform Scheduling of Medicines and Poisons	S6
GHS label elements	None
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

Section 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and Acronyms

ADGC: Australian Code for the Transport of Dangerous Goods by Road and Rail.
 CAS: Chemical Abstracts Service.
 IARC: International Agency for Research on Cancer.
 PBT: Persistent Bio-accumulative and Toxic.
 vPvT: very Persistent and very Toxic.
 STEL: Short Term Exposure Limit
 TWA: Time Weighted Average

References

NOHSC:2011(2003) – National Code of Practice for the Preparation of Material Safety Data Sheets
 WorkSafe Victoria - Code of practice for the storage and handling of dangerous goods.
 AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment
 Australian Code for Transport of Dangerous Goods by Road and Rail Edition 7.4
 Harmonised Classification - Annex VI of Regulation (EC) No. 1272/2008 (CLP Regulation)