SAFETY DATA SHEET (SDS)

Carbol fuchsin 1%

Issue date: 17-11-2023

Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	Carbol fuchsin 1%
Product Codes:	SI4.4 SI4.5/500
Other means of identification:	
Chemical formula, alternative names:	
Recommended use of the chemical and restrictions on use	
Recommended Use:	For laboratory use only.
Suppliers name, address and phone number	
Suppliers Name:	Southern Biological
Suppliers ABN:	94 630 703 810
Suppliers Address:	168 Fulham Road Alphington Victoria 3078 Australia
Suppliers Phone No.:	1300 138 561
Emergency Phone number (BH)	1300 138 561

Section 2: Hazard Identification

Classification of the Hazardous Chemical	

SOUTHERN Biological

Hazard Category	Acute Oral Toxicity Category 4 Acute Inhalation Toxicity - Vapors Category 3 Skin Corrosion/irritation Category 1B Serious eye damage/eye irritation Category 1 Germ cell mutagenicity Category 2 Carcinogenicity Category 2 Specific target organ toxicity (repeated exposure) Category 2
Label elements	
Hazard Pictograms:	
Signal Word:	Danger
Hazard Statements:	Flammable liquid and vapour Causes severe skin burns and eye damage Suspected of causing genetic defects
Precautionary Statements:	Obtain special instructions before use Do not handle until all safety precautions have been read and understood Do not breathe fume/gas/mist/vapours/spray Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Use personal protective equipment as required Keep away from heat/sparks/open flames/hot surfaces 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
Water	7732-18-5	To balance
Phenol	108-95-2	<10%
Ethanol	64-17-5	<10%
Carbol fuchsin	4197-24-4	1-2%

Section 4: First Aid Measures

General Information	
After Inhalation:	IF INHALED: Do NOT use mouth-to-mouth resuscitation; give artificial respiration with the aid of a pocket mask equipped with one-way valve or other proper respiratory medical device. Move to fresh air. Immediate medical attention is required. If not breathing, give artificial respiration.

After skin contact:	Wash with water and soap and rinse thoroughly for at least 15 minutes. Immediate medical attention is required.
After eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice
After swallowing:	Do NOT use mouth-to-mouth resuscitation; give artificial respiration with the aid of a pocket mask equipped with one-way valve or other proper respiratory medical device. Move to fresh air. Immediate medical attention is required. If not breathing, give artificial respiration. Do NOT induce vomiting. Wash out mouth with water. Obtain emergency medical attention. Call a POISON CENTRE or doctor/physician immediately
Information for doctor:	
Most important symptoms and effects both acute and delayed:	Causes burns by all exposure routes. Product is a corrosive. Use of gastric lavage or emesis is **contraindicated**. Possible perforation of stomach or oesophagus should be investigated. Ingestion causes severe swelling, severe damage to delicate tissue and danger of perforation.
Indications of any immediate medical attention and special treatment needed	Ensure that medical personnel are aware of the materials involved, take precautions to protect themselves and prevent spread of contamination. Note to physician: treat symptomatically

Section 5: Firefighting measures

Extinguishing media	
Suitable extinguishing agents:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Special hazards arising for the substance or mixture:	Thermal decomposition can lead to release of irritating gasses and vapours. The product causes burns of eyes, skin and mucous membranes.
Advice for firefighters	
Protective equipment:	Do not enter the fire area without proper protective equipment including respiratory equipment.

Section 6: Accidental release measures

General Information	
Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental precautions:	Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters. See section 12 for additional ecological information.
Methods and material for containment and cleaning up:	Soak up with inert absorbent material., Keep in suitable, closed container for disposal. Dispose of contaminating material as waste according to section 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:	Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe vapours or spray mist. Do not get in eyes, on skin or on clothing. Do not ingest. Do not eat drink or smoke when using this product. Wash contaminated clothing before reuse.
Information about fire – and explosion protection:	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area AS/NZ 2243 10:2004 Safety in laboratories – storage of chemicals
Conditions for safe storage, including any incompatibilities.	
Storage:	Store in cool dry area out of direct sunlight and incompatible materials. Keep containers closed when not in use. Store in suitably labelled containers. Corrosives area.
Requirements to be met by storerooms and receptacles:	No special requirements.
Information about storage in one common storage facility:	Not required.
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:		Ensure eyewash stations and safety showers are close to the workstation location.	
Control parameters:			
Ingredients with limit values that require monitoring at the workplace:			
Name	STEL	TWA	
	ppm	mg/m^3 ppm	Footnote
Phenol		4 1	
Ethyl alcohol	1000	1880 1000	
Additional information		The lists valid during the making were used as basis.	
Exposure Controls:			
General protective and hygienic measures:		Use only in systems, processes and procedures in which effective ventilation has been provided. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with eyes.	
Respiratory protection:		Use AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and	

	be used and maintained in line with AS/NZS 1716 on the use and maintenance of respiratory protective devices (or AUS/NZ equivalent). When RPE is used as a face piece Fit Test should be conducted.
Clothing / Foot-wear and equipment	Long-sleeved clothing
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:	Dark red
Odour:	Not determined
Odour Threshold:	Not determined
pH value:	Not determined
Change in Condition:	
Melting point/Melting range:	0°C
Boiling point/Boiling range:	100°C
Flash point:	Not determined
Flammability (solid / gaseous)	Not determined
Ignition Temperature	
Decomposition temperature:	Not determined
Self-igniting:	Not determined
Danger of explosion:	Not determined
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):	Phenol log Pow 1.5 Ethyl alcohol log Pow -0.32
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:	Incompatible products, excess heat
Incompatible materials:	Oxidising materials
Hazardous decomposition products:	None under normal use conditions

Section 11: Toxicological information

Information on toxicological effects			
Acute toxicity		Oral – category 4 Dermal – based on available data, the classification criteria are not met Inhalation – category 3	
Toxicology data for the components			
Component	**LD50 oral**	**LD50 dermal**	**LC50 inhalation**
Phenol	317mg/kg rat	630mg/kg rabbit 669mg/kg rat	316mg/m^3 rat 4h
Ethyl alcohol	7060 mg/kg rat		20000 ppm/10H rat
General Toxicity:			
Skin corrosion/irritation		Category 1B	
Serious eye damage/irritation		Category 1	
Germ cell mutagenicity		Category 2	
Carcinogenicity		Category 2	

Section 12. Ecological information

Toxicity				
Aquatic toxicity:		The product contains substances which are hazardous for the environment. Very toxic to aquatic organisms.		
Component	**Freshwater fish LC50**	**Water flea EC50**	**Freshwater algae EC50**	**Microtox EC50**
Phenol	4-7 mg/L 96 h 32 mg/L 96 h	10.2 - 15.5 mg/L, 48h (Daphnia magna) 4.24 - 10.7 mg/L, 48h Static (Daphnia magna)	187 - 279 mg/L, 72h static (Desmodesmus subspicatus) 0.0188 - 0.1044 mg/L, 96h static (Pseudokirchneriella subcapitata) 46.42 mg/L, 96h (Pseudokirchneriella subcapitata)	21 - 36 mg/L 30min 23.28 mg/L 5min 25.61 mg/L 15min 28.8 mg/L 5 min 31.6 mg/L 15min

Ethyl alcohol	14200 mg/l/96h Fathead minnow (Pimephales promelas)	9268 mg/L/48h 10800 mg/L/24h	275 mg/l 72h (Chlorella vulgaris)	34634 mg/L/30 min Photobacterium phosphoreum 35470 mg/L/5 min Photobacterium phosphoreum
Persistence and degradability:		Soluble in water, persistence is unlikely, based on information available. Degradation in sewage treatment plant - contains substances known to be hazardous to the environment or not degradable in wastewater treatment plants.		
Mobility:		The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility.		
Behaviour in environmental systems				
Bio-accumulative potential:		Bioaccumulation is unlikely.		
Mobility in soil:		Highly mobile in soils.		
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:	Dispose of this container to hazardous or special waste collection point.
Other information:	Chemical wastes should be disposed through a licensed commercial waste collection service. Do not dispose of waste into sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms.

Section 14. Transport information

General	UN1993 Proper Shipping Name Flammable liquid, n.o.s. Technical Shipping Name Contains Ethyl Alcohol Hazard Class 3 Packing Group II
Component	Hazchem code
Phenol 108-95-2 (<10)	3X 3Y
Ethyly alcohol 64-17-5 (<10)	2YE SY

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	Phenol: S2 listed S4 listed in preparations for injections S5 listed including cresols and xylenols and any other homologue of phenol boiling below 220ºC when in animal feed additives; except in preparations containing <=1% of phenol and in preparations containing <=3% of cresols and xylenols and any other homologues of phenol S6 listed including cresols and xylenols and any other homologue of phenol boiling below 220ºC; except when separately specified in these schedules, or in preparations containing <=1% of phenol and in preparations containing <=3% of cresols and xylenols and any other homologues of phenol
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.