Safety Data Sheet CARBOL FUCHSIN Dilute

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SECTION 1: Identification

GHS Product identifier

Product name	CARBOL FUCHSIN Dilute

Other means of identification

Carbol Fuchsin 0.3%	ACFZ3.1L
Carbol Fuchsin 0.3%	ACFZ3.2.5L
Carbol Fuchsin .3%	CF.3-5L

Recommended use of the chemical and restrictions on use

Product type: Water/ethanol solution of phenol and fuchsin.

Microbiology stain.

Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone	08 8440 2000
email	www.chemsupply.com

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Dangerous Goods of Class 6 (Toxic and Infectious Substances) are incompatible in a placard load with any of the following:
Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids; and are incompatible with food and food packaging in any quantity.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Germ cell mutagenicity, Cat. 2
- Serious eye damage/eye irritation, Cat. 1
- Skin corrosion/irritation, Cat. 2

GHS label elements, including precautionary statements

Pictograms

Signal word	**Danger**

Hazard statement(s)

H315	Causes skin irritation
H318	Causes serious eye damage
H341	Suspected of causing genetic defects

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water/soap
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER/doctor/physcian
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal facility

SECTION 3: Composition/information on ingredients

Mixtures

Other components either not classified as Hazardous under the GHS, or below cut-off concentrations to be classified as Hazardous.

Components

Component	CAS no.	Concentration
Ethanol (EC no.: 200-578-6; Index no.: 603-002-00-5)	**64-17-5**	**<= 12 % (weight)**
CLASSIFICATIONS: Flammable liquids, Cat. 2; Serious eye damage/eye irritation, Cat. 2A. HAZARDS: H225 - Highly flammable liquid and vapor; H319 - Causes serious eye irritation.		
PHENOL (EC no.: 203-632-7; Index no.: 604-001-00-2)	**108-95-2**	**<= 3 % (weight)**
CLASSIFICATIONS: Germ cell mutagenicity, Cat. 2; Acute toxicity, inhalation, Cat. 3; Acute toxicity, dermal, Cat. 3; Acute toxicity, oral, Cat. 3; Specific target organ toxicity following repeated exposure, Cat. 2; Skin corrosion/irritation, Cat. 1B. HAZARDS: H301 - Toxic if swallowed; H311 - Toxic in contact with skin; H314 - Causes severe skin burns and eye damage; H331 - Toxic if inhaled; H341 - Suspected of causing genetic defects [route]; H373 - May cause damage to organs [organs] through prolonged or repeated exposure [route]. [SCLs/M-factors/ATEs]: *; Skin Corr. 1B; H314: C ≥ 3 %; Skin Irrit. 2; H315: 1 % ≤ C < 3 %; Eye Irrit. 2; H319: 1 % ≤ C < 3 %		
C.I. BASIC VIOLET 14 (EC no.: 211-189-6)	**632-99-5**	**<= 0.3 % (weight)**
CLASSIFICATIONS: Acute toxicity, oral, Cat. 4; Carcinogenicity, Cat. 2. HAZARDS: H302 - Harmful if swallowed; H351 - Suspected of causing cancer [route].		

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor (at once). First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
In case of skin contact	If on skin, remove any contaminated clothing, wash skin thoroughly with soap and water, then methylated spirit if available. Contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.
In case of eye contact	If in eyes, hold eyelids apart and flush eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.
If swallowed	If swallowed, do NOT induce vomiting.

Most important symptoms/effects, acute and delayed
Irritation, shortness of breath, headache, nausea, dizziness.

Indication of immediate medical attention and special treatment needed, if necessary
For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Specific Methods: Small fire: Use dry chemical, CO2, water spray or foam.
Large fire: Use water spray, fog or foam.
If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

Specific hazards arising from the chemical
Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness.
Fire decomposition products from this product are likely to be harmful if inhaled. Take suitable protective measures.

Ethanol: Carbon oxides

Special protective actions for fire-fighters
Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and materials for containment and cleaning up
Contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Wear appropriate protective clothing, safety glasses, gloves. Wash hands and face thoroughly after working with material. Areas in which people handle this chemical should be equipped with safety showers. Remove contaminated clothing and wash before re-use. Avoid inhalation and ingestion. Under no circumstances eat, drink or smoke while handling this material. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Store in tightly closed containers, in a cool, dry, ventilated area away from sources of heat or ignition.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.f the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against
chemicals should comply with AS 3765 Clothing for Protection Against Hazardous
Chemicals.

Hand Protection: Normally not required but if in doubt ensure hand protection should complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Red-blue solution
Color	No data available.
Odor	Mild phenolic odour.
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	Approx 100°C at 100kPa.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.

Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	No data available.
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Completely soluble.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: 0.95 approx.
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes
No data available.

Further safety characteristics (supplemental)
No data available.

SECTION 10: Stability and reactivity

Reactivity
None under normal use conditions.

Reacts with incompatible materials

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal use conditions.

Conditions to avoid
Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible materials

Ethanol: Alkali metals, Oxidizing agents, Peroxides

Hazardous decomposition products
Only small quantities of decomposition products are expected from this products at temperatures normally achieved in a fire. This will only occur after heating to dryness. Carbon dioxide and carbon monoxide acids and acrid smoke.
Fire decomposition products from this product are likely to be harmful if inhaled. Take suitable protective measures.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Toxic if swallowed. May cause digestive tract irritation with immediate pain, swelling of the throat. Ingestion is not a typical route of occupational exposure.

Toxic by inhalation. May cause irritation of nose, throat, respiratory tract and lungs with coughing, burns, breathing difficulty. Breathing vapour or mist may result in digestive disturbances (vomiting, difficulty in swallowing, nausea, vomiting, diarrhoea, loss of appetite). Substance is unlikely to pose an inhalation hazard unless it is heated or misted, as it does not readily form a vapour at room temperature.

Ethanol: ACGIH: A3 Confirmed animal carcinogen with unknown relevance to humans.

// ----- From the Suggestion report (19/02/2024, 9:53 AM) ----- //
The ATE (gas inhalation) of the mixture is: 23333.33 ppmV

// ----- From the Suggestion report (19/02/2024, 9:53 AM) ----- //
The ATE (oral) of the mixture is: 3333.33 mg/kg bw

Skin corrosion/irritation
Toxic in contact with skin. Corrosive following skin contact. Skin contact and absorption is the most common route of occupational exposure. Repeated contact with dilute solutions or even brief contact with concentrated solutions can pose a risk to life. Readily absorbed through the skin and can cause harmful effects. Signs and symptoms of phenol toxicity develop rapidly and include central nervous system effects, muscle weakness, tremors, loss of coordination, effects on the heart and blood vessels, shock, sudden collapse, coma, convulsions, lung and kidney damage and death.

Serious eye damage/irritation
Risk of serious damage to eyes. Corrosive to the eyes. May cause severe irritation, eye burns, redness, pain, blurred vision and permanent damage, including blindness. Vapours are irritating to eyes.

Respiratory or skin sensitization
No data available.

Germ cell mutagenicity
Suspected of causing genetic defects.

Carcinogenicity
Suspected of causing cancer.

Reproductive toxicity
No data available.

Specific target organ toxicity (STOT) - single exposure
No data available

Specific target organ toxicity (STOT) - repeated exposure
No data available.

Aspiration hazard
No data available

Additional information

C.I. BASIC VIOLET 14: *TOXICITY:
Not available

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION: Not available

*CARCINOGENICITY:
Review: IARC Cancer Review: Human Inadequate Evidence
IARC Cancer Review: Animal Inadequate Evidence
IARC: Not classifiable as a human carcinogen [610]

*MUTATION DATA: Not available

*TERATOGENICITY: Not available

*STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: None
ACGIH: None
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): None
Flammability (F): None
Reactivity (R): None

*OTHER TOXICITY DATA:
Status: Reported in EPA TSCA Inventory, 1980

Ethanol: Stomach - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

Toxicity
Phenol

Fish LC50 - Leuciscus idus (Golden orfe_ = 14.00-25.00 mg/L - 48h
Invertebrates EC50 - Daphnia Magna (Water flea) - 56mg/L - 48h
Algae EC50 - Chlorella Vulgaris (Fresh Water Algae) - 370 mg/L - 96h

Basic Fuchsin

Fish LC50 - Oryzias Latipes - 4.3mg/L - 48h

Persistence and degradability
Readily degradable in the environment

Bioaccumulative potential
Bioaccumulation is expected to be low

Mobility in soil
No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations
Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)
UN Number: 2810
Class: 6.1
Packing Group: III
Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. (Contains Phenol)

Environmental Hazards: Toxic for aquatic organisms. Toxic effect on fish and plankton. Forms toxic mixtures in water, dilution measures notwithstanding. Change in the flavour characteristics of fish protein. Endangers drinking-water supplies if allowed to enter soil or water.

Hazchem emergency action code (EAC)
2X

IMDG
UN Number: 2810
Class: 6.1
Packing Group: III
EMS Number:
Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. (Contains Phenol)

IATA
UN Number: 2810
Class: 6.1
Packing Group: III
Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. (Contains Phenol)

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP
Poison Schedule: S6

SECTION 16: Other information

Further information/disclaimer
ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

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may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'
Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.
Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.
Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019
Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au
IATA, Dangerous Goods Regulations (DGR)
IMO, International Maritime Dangerous Goods Code (IMDG)