Safety Data Sheet KINYOUN'S CARBOL FUCHSIN (DMSO)

SDS no. TJQ8QRF5 • Version 2.0 • Date of issue: 2024-02-18

SECTION 1: Identification

GHS Product identifier

Product name	KINYOUN'S CARBOL FUCHSIN (DMSO)

Other means of identification

Carbol Fuchsin Kinyoun's	CFK-1L
Carbol Fuchsin Kinyoun's	CFK-500

Recommended use of the chemical and restrictions on use

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

Laboratory use only. For the demonstration of Acid Fast Bacilli esp. M.Tuberculosis, Leprae & Ulcerans.

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.au

National contact

Name	Australian Biostains Pty Ltd
Address	16 Shipwright Road 5016 Largs North SA Australia

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.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, dermal, Cat. 4
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 4
- Carcinogenicity, Cat. 2
- Serious eye damage/eye irritation, Cat. 1
- Germ cell mutagenicity, Cat. 2
- Skin corrosion/irritation, Cat. 1B
- Specific target organ toxicity following repeated exposure, Cat. 2

GHS label elements, including precautionary statements

Pictograms

Signal word	**Danger**

Hazard statement(s)

H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H373	May cause damage to organs [organs] through prolonged or repeated exposure

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physcian if you feel unwell,
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water/soap
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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
P314	Get medical advice/attention if you feel unwell.
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

Information on Composition: This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

Components

Component	CAS no.	Concentration
Water (EC no.: 231-791-2)	**7732-18-5**	**<= 49 % (weight)**
CLASSIFICATIONS: No data available. HAZARDS: No data available.		
PHENOL (EC no.: 203-632-7; Index no.: 604-001-00-2)	**108-95-2**	**<= 21 % (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 %		
Ethanol (EC no.: 200-578-6; Index no.: 603-002-00-5)	**64-17-5**	**<= 15 % (weight)**
CLASSIFICATIONS: Flammable liquids, Cat. 2. HAZARDS: H225 - Highly flammable liquid and vapor.		
Glycerol (EC no.: 200-289-5)	**56-81-5**	**<= 6 % (weight)**
CLASSIFICATIONS: No data available. HAZARDS: No data available.		
Dimethyl sulfoxide (EC no.: 200-664-3)	**67-68-5**	**<= 5 % (weight)**
CLASSIFICATIONS: Flammable liquids, Cat. 4. HAZARDS: No data available.		
C.I. BASIC VIOLET 14 (EC no.: 211-189-6)	**632-99-5**	**<= 4 % (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	Advice to Doctor: Treat symptomatically based on judgement of doctor and individual reactions of the patient. Gastric lavage carries a severe risk of aspiration into lungs with potential to cause a chemical pneumonitis.
If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
In case of skin contact	Remove contaminated clothing and wash affected skin with soap and water. If rapid recovery does not occur, obtain medical attention
In case of eye contact	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If rapid recovery does not occur, obtain medical attention
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

Most important symptoms/effects, acute and delayed

Acute:-
Swallowed: - Toxic. Nausea, headache, vomiting, euphoria, inebriation, impaired vision, acidosis and coma.
Eye: - Irritation.
Skin: - May cause local irritation.
Inhaled: - irritation of mucous membranes.

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

Caution: Use of water spray when fighting fire may be inefficient.
Small fire: Use foam, dry chemical, CO2 or water spray.
Large fire: Use foam, fog or water spray - Do not use water jets.
If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out.
Avoid getting water inside the containers.

Specific hazards arising from the chemical

May librate toxic fumes in fire includes oxides of carbon.

Dimethyl sulfoxide: Carbon oxides, Sulphur 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

Wear personal protection, including apron, nitrile gloves and safety glasses. Avoid breathing vapours, carry out procedures in well-ventilated area, preferably in a NATA approved /Certified fume cupboard. In case of emergency, evacuate all personnel to a safe area. Contain and manage hazard if safe to do so. In case of fire, See Section 5. For spills see Section 6.3 below.

Methods and materials for containment and cleaning up

Small Spillages: Wear personal protection as described above. Prevent material from spreading by using a suitable absorbent eg. Paper towel, sawdust or vermiculite around edges. Absorb spillage using the same materials. Collect absorbent material and place in a suitable collection container, seal and label as hazardous chemical waste including a description of the content including the pictograms as shown in Section 2.2 along with hazard statements. Dispose of waste through an approved and licensed authority.

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

Control parameters

CAS: (not specified)

Glycerol

ACGIH: 10 mg/m3 TLV® inhalation

CAS: 56-81-5

Glycerol

AU/SWA (Australia): 10 mg/m3 TWA inhalation; Cal/OSHA: PNOR PEL inhalation; 10 mg/m3 PEL inhalation; 5 mg/m3 PEL inhalation; NIOSH: See Appendix D REL inhalation; OSHA: 15 mg/m3 PEL inhalation; 5 mg/m3 PEL inhalation

CAS: 67-68-5 (EC: 200-664-3)

Dimethyl sulfoxide

ACGIH: 250 ppm WEEL inhalation

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

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: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

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	Thin Dark red/black liquid with metallic sheen.
Color	Dark red/black
Odor	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	No data available.
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
Stable under normal conditions of storage and handling.

Risk of ignition. Vapours may form explosive mixtures with air

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal use conditions.

Vapours may form explosive mixture with air.

Conditions to avoid
Temperature extremes.

Incompatible materials
Strong oxidizing agents. Strong acids.

Dimethyl sulfoxide: Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents

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Glycerol: Strong bases, Strong oxidizing agents

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
Ingestion: Toxic if swallowed. If ingested, severe burns of the mouth and throat, perforation of stomach and/or oesophagus may occur. Ingestion is not a typical route of occupational exposure.

Inhalation: 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.

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
Germ Cell Mutagenicity: Category 2

Carcinogenicity
Evidence of a carcinogenic effect.

Reproductive toxicity
No data available.

Summary of evaluation of the CMR properties
No data available.

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

Specific target organ toxicity (STOT) - repeated exposure
May cause damage to organs through prolonged or repeated exposure

Aspiration hazard
No data available.

Additional information
Specific target organ toxicity - Repeated Exposure Category 2
Possible systemic effects, including cardiac, liver and kidney. Possible damage to optic nerve.
Chemical pneumonitis. Strong irritation/ possible burns.

Dimethyl sulfoxide: *TOXICITY:
typ. dose mode specie amount units other
TDLo ivn man 606 mg/kg
LD50 orl rat 14500 mg/kg
LD50 ipr rat 8200 mg/kg
LD50 scu rat 12 gm/kg
LD50 ivn rat 5360 mg/kg
LD50 orl mus 7920 mg/kg
LD50 ipr mus 2500 mg/kg
LD50 scu mus 14 gm/kg
LD50 ivn mus 3100 mg/kg

LD50 ivn dog 2500 mg/kg
LD50 orl ckn 12 gm/kg
LD50 orl bwd 100 mg/kg
LD50 unr rat 1300 mg/kg
LDLo ivn cat 200 mg/kg

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION:
THR: Poison by ingestion. Moderately toxic by intravenous and intraperitoneal routes. Mildly toxic by subcutaneous route. An experimental tumorigen and teratogen. Human systemic effects by intravenous route. Experimental reproductive effects. Human mutagenic data.

*CARCINOGENICITY:
Tumorigenic Data:
TDLo: orl-rat 59 gm/kg/81W-I
TDLo: scu-rat 220 gm/kg/82W-I
TDLo: orl-mus 65340 mg/kg/66W-I
TDLo: scu-mus 66 gm/kg/66W-I

*MUTATION DATA: See RTECS printout for data

*TERATOGENICITY: See RTECS printout for data

*STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: None
ACGIH: None
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): 1
Flammability (F): 1
Reactivity (R): 0
H1: Materials only slightly hazardous to health (see NFPA for details).
F1: Materials that must be preheated before ignition can occur (see NFPA for details).
R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

*OTHER TOXICITY DATA:
Skin and Eye Irritation Data:
skn-rbt 10 mg/24H open MLD
skn-rbt 500 mg/24H MLD
eye-rbt 100 mg
eye-rbt 500 mg/24H MLD
Review: Toxicology Review-3
Status: EPA TSCA Chemical Inventory, 1986
EPA TSCA Test Submission (TSCATS) Data Base, September 1989
EPA Genetox Program 1988, Positive: Aspergillus-aneuploidy; S cerevisiae gene conversion
EPA Genetox Program 1988, Negative: SHE-clonal assay; Cell transform.-mouse embryo
EPA Genetox Program 1988, Negative: D melanogaster-whole sex chromosome loss; Host-mediated assay
EPA Genetox Program 1988, Negative: Cell transform.-RLV F344 rat embryo

EPA Genetox Program 1988, Negative: N crassa-aneuploidy; E coli polA with S9
EPA Genetox Program 1988, Negative: Histidine reversion-Ames test; In vitro SCE-nonhuman
EPA Genetox Program 1988, Negative: D melanogaster Sex-linked lethal
EPA Genetox Program 1988, Inconclusive: Aspergillus-recombination; Carcinogenicity-mouse/rat
EPA Genetox Program 1988, Inconclusive: D melanogaster-reciprocal translocation
EPA Genetox Program 1988, Inconclusive: Rodent dominant lethal; B subtilis rec assay
EPA Genetox Program 1988, Inconclusive: E coli polA without S9

Glycerol: *TOXICITY:
typ. dose mode specie amount units other
TDLo orl hmn 1428 mg/kg
LD50 orl rat 12600 mg/kg
LD50 ipr rat 4420 mg/kg
LD50 scu rat 100 mg/kg
LD50 ivn rat 5566 mg/kg
LD50 orl mus 4090 mg/kg
LD50 ipr mus 8700 mg/kg
LD50 scu mus 91 mg/kg
LD50 ivn mus 4250 mg/kg
LD50 ivn rbt 53 gm/kg
LD50 orl gpg 7750 mg/kg

*AQTX/TLM96: over 1000 ppm

*SAX TOXICITY EVALUATION:
THR: Poison by subcutaneous route. Mildly toxic by ingestion. Human systemic effects by ingestion. Experimental reproductive effects. Human mutagenic data. A skin and eye irritant. In the form of mist it is a nuisance particulate and inhalation irritant.

*CARCINOGENICITY: Not available

*MUTATION DATA:
test lowest dose | test lowest dose
---------- ---------- | ---------- ----------
dni-hmn:lym 200 mmol/L | cyt-rat-orl 1 gm/kg

*TERATOGENICITY:
Reproductive Effects:
TDLo: orl-rat 100 mg/kg (1D male)
TDLo: itt-rat 280 mg/kg (2D male)
TDLo: itt-rat 1600 mg/kg (1D male)

*STANDARDS, REGULATIONS & RECOMMENDATIONS:
OSHA: Federal Register (1/19/89) and 29 CFR 1910.1000 Subpart Z
Transitional Limit: PEL-TWA 15 mg/m3 (total dust) [610]
Transitional Limit: PEL-TWA 5 mg/m3 (respirable fraction) [610]
Final Limit: PEL-TWA 10 mg/m3 (total dust) [610]

Final Limit: PEL-TWA 5 mg/m3 (respirable fraction) [610]
ACGIH: TLV-TWA 10 mg/m3 (for total dust containing no asbestos and less than 1% crystalline silica) [610]
NIOSH Criteria Document: None
NFPA Hazard Rating: Health (H): 1
Flammability (F): 1
Reactivity (R): 0
H1: Materials only slightly hazardous to health (see NFPA for details).
F1: Materials that must be preheated before ignition can occur (see NFPA for details).
R0: Materials which are normally stable even under fire exposure conditions and which are not reactive with water (see NFPA for details).

*OTHER TOXICITY DATA:
Skin and Eye Irritation Data:
skn-rbt 500 mg/24H MLD
eye-rbt 126 mg MLD
eye-rbt 500 mg/24H MLD
Review: Toxicology Review
Status: EPA TSCA Chemical Inventory, 1986
EPA TSCA Test Submission (TSCATS) Data Base, January 1989
NIOSH Analytical Methods: see Nuisance Dust, Total 0500; Nuisance Dust Respirable, 0600
Meets criteria for proposed OSHA Medical Records Rule

SECTION 12: Ecological information

Toxicity
No data available on product

Persistence and degradability
No data available.

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

Results of PBT and vPvB assessment
No data available.

Endocrine disrupting properties
No data available.

Other adverse effects
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.

Packaging disposal
No data available.

Waste treatment
No data available.

Sewage disposal
No data available.

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

19/2/24 - Converted to DMSO CF, added SKUs

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

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Preparation information

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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)