
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Carbol Fuchsin Decolorizer (Ziehl Neelsen & Kinyoun)
Catalog Number: SC26
Product Use: For laboratory use only

Manufacturer's Name: Dalynn Biologicals Inc.
Supplier's Name: Dalynn Biologicals Inc.
Address: 3253 – 34 Avenue NE
Calgary, AB, Canada
T1Y 6X2

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Phone Number Only

2. HAZARD IDENTIFICATION**Emergency Overview****GHS Classification**

Flammable liquids (Category 2)

Skin irritation (Category 3)

Eye irritation (Category 2A)

GHS Label Elements, Including Precautionary Statements

Pictogram



Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapor.

H301 Harmful if swallowed.

H319 Causes serious eye irritation.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves & clothing/ eye protection/ face protection.

P310 Immediately call a poison center or doctor.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P370+P378
P403+235

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
Store in a well-ventilated place. Keep cool.

3. COMPOSITION & INFORMATION ON INGREDIENTS

| INGREDIENT | % | CAS-No. | EC-No. | Index-No. |
|-------------------|----|-----------|-----------|--------------|
| Ethanol | 97 | 64-17-5 | 200-578-6 | 603-002-00-5 |
| Hydrochloric acid | 3 | 7647-01-0 | 231-595-7 | 017-002-01-X |

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move affected individual out of affected area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing. Wash affected area with soap and plenty of water. If feeling unwell, consult a physician.

In case of eye contact

Flush eyes with plenty of water for at least 15 minutes. Consult a physician.

If swallowed

Do not induce vomiting. Rinse mouth with water if patient is conscious. Take patient to hospital and consult a physician.

5. FIREFIGHTING MEASURES

Conditions of flammability

Flammable in the presence of an ignition source when the temperature is above the flash point. Keep away from heat, sparks, open flame. No smoking.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions: carbon oxides (ie. carbon dioxides, carbon monoxide)

Explosion data – sensitivity to mechanical impact

No data available.

Explosion data – sensitivity to static discharge

No data available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to explosive concentrations.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Wearing appropriate safety gear including chemical resistant gloves and dust mask or respirator. Soak up with paper or cloth towels and place in a sealed container and hold for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use in area with adequate ventilation. Keep away from sources of ignition. No smoking.

Conditions for safe storage

Keep container tightly closed in a well ventilated place away from ignition sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value | Control parameters | Basis |
|------------|---------|-------|--------------------------------------|--|
| Ethanol | 64-17-5 | TWA | 1,000 ppm 1,880 mg/m ³ | Canada. Alberta. Occupational Health and Safety Code (table 2:OEL) |
| | | TWA | 1,000 ppm | Canada. British Columbia OEL |
| | | STEL | 1,000 ppm | Canada. British Columbia OEL |
| | | TWAEV | 1,000 ppm 1,900 mg/m ³ | Canada. Ontario OELs |
| | | TWAEV | 1,000 ppm 1,880 mg/m ³ | Canada. Quebec. Regulation respecting occupational health and safety, schedule 1, Part 1 |
| | | TWA | 1,000 ppm | USA. ACGIH Threshold Limit Values (TLV) |
| | | STEL | 1,000 ppm | USA. ACGIH Threshold Limit Values (TLV) |

Personal protective equipment

Respiratory protection

Use in area with adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands after use.

Eye protection

Face shield and/or safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin and body protection

Wear appropriate clothing such as a lab coat that covers as much of the body as possible. Complete suit can also be worn if desired.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

| | |
|-------|------------------------------|
| Form | Liquid |
| Color | Clear to light straw colored |

Safety data

| | |
|---|----------------------------|
| pH | No data available |
| Melting point/ freezing point | -114°C (173°F) - ethanol |
| Boiling point | 79.4°C - ethanol |
| Flash point | 14°C (57.2°F) cc - ethanol |
| Ignition temperature | 363°C (685°F) - ethanol |
| Auto ignition temperature | 363°C (685°F) - ethanol |
| Lower explosion limit | 3.3% (V) - ethanol |
| Upper explosion limit | 19% (V) - ethanol |
| Vapor pressure | 40 (at 19°C) |
| Density | 0.7974 g/cm ³ |
| Water solubility | soluble |
| Partition coefficient/ n-octanol/water | No data available |
| Relative vapor density | No data available |
| Odour | No data available |
| Odour threshold | No data available |
| Evaporation rate | No data available |

10. STABILITY AND REACTIVITY**Chemical stability**

Stable under recommended storage conditions.

Possibility of hazardous reactions

Vapors may form explosive mixture with air.

Materials to avoid

Oxidizing agents, strong bases, alkali metals, peroxides

Hazardous decomposition products

Other decomposition products – No data available

Hazardous decomposition products formed under fire conditions – Carbon oxides

11. TOXICOLOGICAL INFORMATION**Acute toxicity****Oral LD50**

LD50 Oral – Rat – 10,470 mg/kg (ethanol)

Inhalation LC50

LD50 Inhalation – Rat – 4h - 30,000 mg/l (ethanol)

Dermal LD50

LD50 Dermal – Rabbit – 15,800 mg/kg (ethanol)

Other information on acute toxicity

No data available

Skin corrosion/irritation

Skin – Rabbit – No skin irritation – 24h – OECD Test Guidelines 404 (ethanol)

Serious eye damage/eye irritation

Eye – Rabbit – Moderate eye irritation – OECD Test Guidelines 405 (ethanol)

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

This table below indicates whether each agency has listed any ingredient as a carcinogen

| Component | CAS-No | IARC | NTP | ACGIH | OSHA | Mexico |
|-----------|---------|---------|-------|-------|------|------------|
| Ethanol | 64-17-5 | Group 1 | Known | A3 | X | Not listed |

IARC: (International Agency for Research on Cancer)

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Group 1 - Carcinogenic to Humans Group

2A - Probably Carcinogenic to Humans Group

2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

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Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

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A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

Reproductive toxicity

Reproductive toxicity – Human – Female (Oral) (Ethanol)

Effects on newborn – Apgar score, drug dependence (Ethanol)

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard

No data available

Potential Health Effects**Inhalation** May be harmful if inhaled. Causes respiratory tract inflammation.**Skin** May be harmful if absorbed through skin. Causes skin irritation.**Eyes** Causes eye irritation on contact. May cause burns depending on duration.**Ingestion** Harmful if swallowed. Causes GI disturbances, nausea, dizziness and vomiting.
Alcohol swallowed in sufficient quantity can cause blindness, coma and death.**Signs and Symptoms of Exposure**

CNS depression, narcosis, damage to the heart. Ethanol is listed as a potential carcinogen by IARC. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

No data available

Additional information

RTECS: Not available

12. ECOLOGICAL INFORMATION**Ecotoxicity**

| Component | Freshwater Algae | Freshwater Fish | Microtox | Water Flea |
|-----------|--|---|---|---|
| Ethanol | EC50 (72h) = 275 mg/L (Chorella vulgaris) | Fathead minnow (Pimephales promelas) LC50 = 14,200 mg/L/96h | Photobacterium phosphoreum: EC50 = 34,634 mg/L/30 min Photobacterium phosphoreum: EC50 = 35,470 mg/L/5 min | EC50 = 9,268 mg/L/48h EC50 = 10,800 mg/L/24h |

Persistence and degradability

Persistence is unlikely based on information available.

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN Number: 1170 Class: 3 Packing Group: II

Proper Shipping Name: Ethanol solution

Reportable Quantity (RQ):

Marine Pollutant: No

Poison Inhalation Hazard: No

IMDG

UN Number: 1170 Class: 3 Packing Group: II EMS-No: F-E, S-D

Proper Shipping Name: Ethanol solution

Marine Pollutant: No

IATA

UN Number: 1170 Class: 3 Packing Group: II

Proper Shipping Name: Ethanol solution

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by them.

16. OTHER INFORMATION

Further information

Copyright 2018 Dalynn Biologicals Inc. The above information is believed to be correct but does not purport to be all inclusive and shall be only used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dalynn Biologicals Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.
