

SAFETY DATA SHEET

ZN Carbol Fuchsin Concentrate

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 No. 758, as amended.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name ZN Carbol Fuchsin Concentrate

Product number PL.8005, PL.8005/4, PL.8005/5

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory reagent.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Pro-Lab Diagnostics
3 Bassendale Road
Wirral
Merseyside
CH62 3QL
Tel: 0151 353 1613
Fax: 0151 353 1614
mowen@pro-lab.com

1.4. Emergency telephone number

Emergency telephone +44 (0)151 353 1613 Monday to Friday 9.00 to 17.00
+44 (0)7714 429 646 outside the above hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards Flam. Liq. 3 - H226

Health hazards Acute Tox. 3 - H301 Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Muta. 2 - H341 Carc. 2 - H351 STOT RE 2 - H373

Environmental hazards Aquatic Chronic 2 - H411

Human health Corrosive to skin and eyes. Contains a substance which may be potentially carcinogenic.

Environmental The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Physicochemical The product is highly flammable.

2.2. Label elements

Hazard pictograms



Signal word

Danger

ZN Carbol Fuchsin Concentrate

| | |
|---|--|
| Hazard statements | <p>H226 Flammable liquid and vapour. H301+H331 Toxic if swallowed or if inhaled. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.</p> |
| Precautionary statements | <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 Avoid release to the environment. P280 Wear protective clothing, gloves, eye and face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 Immediately call a POISON CENTER/ doctor. P302+P352 IF ON SKIN: Wash with plenty of water. 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. P501 Dispose of contents/ container in accordance with national regulations.</p> |
| Contains | phenol, basic fuchsin, methanol |
| Supplementary precautionary statements | <p>P202 Do not handle until all safety precautions have been read and understood. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P260 Do not breathe vapour/ spray. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P363 Wash contaminated clothing before reuse. P308+P313 IF exposed or concerned: Get medical advice/ attention. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P391 Collect spillage. P405 Store locked up.</p> |

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | |
|---|----------------------|
| phenol | 50 - 100% |
| CAS number: 108-95-2 | EC number: 203-632-7 |
| Classification Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Muta. 2 - H341 STOT RE 2 - H373 Aquatic Chronic 2 - H411 | |

ZN Carbol Fuchsin Concentrate

Eye contact Causes serious eye damage. Conjunctivitis, irritation, tearing. Pain. Profuse watering of the eyes. Vapour or spray in the eyes may cause irritation and smarting.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember.

5.3. Advice for firefighters

Protective actions during firefighting Fight fire from safe distance or protected location. Use water spray to reduce vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak.

Special protective equipment for firefighters Use air-supplied respirator, gloves and protective goggles. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. The product contains substances which are water-soluble and may spread in water systems. The product contains volatile substances which may spread in the atmosphere.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Take care as floors and other surfaces may become slippery. Contain spillage with sand, earth or other suitable non-combustible material. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid breathing vapours. Avoid contact with eyes and prolonged skin contact. Avoid the formation of mists. Ground/bond container and receiving equipment.

ZN Carbol Fuchsin Concentrate

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Take off contaminated clothing and wash it before reuse. Wash promptly with soap and water if skin becomes contaminated.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep at temperature not exceeding 25°C.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

phenol

Long-term exposure limit (8-hour TWA): WEL 2 ppm 7.8 mg/m³

Short-term exposure limit (15-minute): WEL 4 ppm 16 mg/m³

Sk

ethanol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

phenol (CAS: 108-95-2)

DNEL

Workers - Inhalation; Long term systemic effects: 8 mg/m³

Workers - Inhalation; Short term local effects: 16 mg/m³

Workers - Dermal; Long term systemic effects: 1.23 mg/kg/day

General population - Inhalation; Long term systemic effects: 1.32 mg/m³

General population - Dermal; Long term systemic effects: 0.4 mg/kg/day

General population - Oral; Long term systemic effects: 0.4 mg/kg/day

PNEC

- Fresh water; 0.008 mg/l

- Intermittent release, Fresh water; 0.031 mg/l

- marine water; 0.001 mg/l

- STP; 2.1 mg/l

- Sediment (Freshwater); 0.009 mg/kg

- Sediment (Marinewater); 0.009 mg/kg

- Soil; 0.136 mg/kg

methanol (CAS: 67-56-1)

ZN Carbol Fuchsin Concentrate

| | |
|-------------|--|
| DNEL | <p>Workers - Inhalation; Long term systemic effects: 260 mg/m³</p> <p>Workers - Inhalation; Short term systemic effects: 260 mg/m³</p> <p>Workers - Inhalation; Long term local effects: 260 mg/m³</p> <p>Workers - Inhalation; Short term local effects: 260 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 40 mg/kg/day</p> <p>Workers - Dermal; Short term systemic effects: 40 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 50 mg/m³</p> <p>General population - Inhalation; Short term systemic effects: 50 mg/m³</p> <p>General population - Inhalation; Long term local effects: 50 mg/m³</p> <p>General population - Inhalation; Short term local effects: 50 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 8 mg/kg/day</p> <p>General population - Dermal; Short term systemic effects: 8 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 8 mg/kg/day</p> <p>General population - Oral; Short term systemic effects: 8 mg/kg/day</p> |
| PNEC | <ul style="list-style-type: none"> - Fresh water; 20.8 mg/l - Fresh water, Intermittent release; 1540 mg/l - marine water; 2.08 mg/l - STP; 100 mg/l - Sediment (Freshwater); 77 mg/kg - Sediment (Marinewater); 7.7 mg/kg - Soil; 100 mg/kg |

8.2. Exposure controls

| | |
|---|--|
| Appropriate engineering controls | Avoid inhalation of vapours and spray/mists. Good general ventilation should be adequate to control worker exposure to airborne contaminants. In case of insufficient ventilation, wear suitable respiratory equipment. |
| Eye/face protection | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. |
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Frequent changes are recommended. The breakthrough time for any glove material may be different for different glove manufacturers. |
| Other skin and body protection | Wear anti-static protective clothing if there is a risk of ignition from static electricity. |
| Hygiene measures | Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. |
| Respiratory protection | If ventilation is inadequate, suitable respiratory protection must be worn. Seek advice from supervisor on the company's respiratory protection standards. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-------------------|---------------|
| Appearance | Liquid. |
| Colour | Dark. Red. |
| Odour | Alcoholic. |
| pH | Not relevant. |

ZN Carbol Fuchsin Concentrate

| | |
|---|---|
| Melting point | Not relevant. |
| Initial boiling point and range | Not determined. |
| Flash point | Not determined. |
| Evaporation rate | Not determined. |
| Flammability (solid, gas) | Not determined. |
| Upper/lower flammability or explosive limits | Not determined. |
| Vapour pressure | Not determined. |
| Vapour density | Not relevant. |
| Relative density | Not determined. |
| Solubility(ies) | Soluble in water. |
| Partition coefficient | Not determined. |
| Auto-ignition temperature | Not determined. |
| Decomposition Temperature | Not determined. |
| Viscosity | Not determined. |
| Explosive properties | Not considered to be explosive. |
| Oxidising properties | Does not meet the criteria for classification as oxidising. |

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Acids. Alkalis. Oxidising agents.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Acids. Alkalis. Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrous gases (NO_x). Hydrocarbons. Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ZN Carbol Fuchsin Concentrate

Acute toxicity - oral

Notes (oral LD₅₀) Acute Tox. 3 - H301 Toxic if swallowed.

ATE oral (mg/kg) 159.12

Acute toxicity - dermal

Notes (dermal LD₅₀) Acute Tox. 4 - H312 Harmful in contact with skin.

ATE dermal (mg/kg) 1,046.06

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Acute Tox. 3 - H331 Toxic if inhaled.

ATE inhalation (gases ppm) 49,778.77

ATE inhalation (vapours mg/l) 4.89

Skin corrosion/irritation

Animal data Skin Corr. 1B - H314 Causes severe skin burns and eye damage.

Serious eye damage/irritation

Serious eye damage/irritation Eye Dam. 1 - H318 Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Muta. 2 - H341 Suspected of causing genetic defects.

Carcinogenicity

Carcinogenicity Carc. 2 - H351 Suspected of causing cancer.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure STOT RE 2 - H373

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation

Toxic if inhaled. Symptoms following overexposure may include the following: Pain or irritation. Irritation of nose, throat and airway. Coughing. Wheezing/breathing difficulties.

Ingestion

Toxic if swallowed. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact

This product is strongly corrosive. May cause serious chemical burns to the skin. Harmful in contact with skin.

Eye contact

Risk of serious damage to eyes. A single exposure may cause the following adverse effects: Pain. Conjunctivitis, irritation, tearing. Redness.

Acute and chronic health hazards

Suspected of causing genetic defects. Suspected of causing cancer.

ZN Carbol Fuchsin Concentrate

Route of exposure Inhalation Ingestion Skin and/or eye contact

Toxicological information on ingredients.

phenol

Acute toxicity - oral

Notes (oral LD₅₀) Acute Tox. 3 - H301 Toxic if swallowed.

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 660.0

Species Rat

Notes (dermal LD₅₀) REACH dossier information. Acute Tox. 3 - H311 Toxic in contact with skin.

ATE dermal (mg/kg) 660.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Acute Tox. 3 - H331 Toxic if inhaled.

ATE inhalation (vapours mg/l) 3.0

Skin corrosion/irritation

Animal data Dose: 0.5 g, 24 hours, Rabbit Erythema/eschar score: Severe erythema (beef redness) to eschar formation preventing grading of erythema (4). REACH dossier information. Corrosive.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 100 mg, < 14 days, Rabbit REACH dossier information. Corrosive to skin. Corrosivity to eyes is assumed.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Chromosome aberration: Positive. REACH dossier information. May induce heritable mutations in the germ cells of humans.

Carcinogenicity

Carcinogenicity NOAEL 5000 ppm, Oral, Mouse REACH dossier information. Based on available data the classification criteria are not met.

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEL 1000 mg/l, Oral, Rat P REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity - development Developmental toxicity:, Maternal toxicity: - NOAEL: 140 mg/kg/day, Oral, Mouse No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - repeated exposure

ZN Carbol Fuchsin Concentrate

STOT - repeated exposure STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.

ethanol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 10,470.0

Species Rat

Notes (oral LD₅₀) REACH dossier information. Based on available data the classification criteria are not met.

ATE oral (mg/kg) 10,470.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 124.7

Species Rat

Notes (inhalation LC₅₀) REACH dossier information. Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 124.7

Skin corrosion/irritation

Animal data Dose: 0.2 ml, 24 hours, Rabbit Primary dermal irritation index: 0 / 8 REACH dossier information. Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.1 mL, 21 days, Rabbit Causes eye irritation. REACH dossier information.

Respiratory sensitisation

Respiratory sensitisation Rat: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Read across data. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

Reproductive toxicity

Reproductive toxicity - fertility Two-generation study - NOAEL 15 %, Oral, Mouse P REACH dossier information.

ZN Carbol Fuchsin Concentrate

Reproductive toxicity - development Maternal toxicity: - NOAEL: 16000 ppm, Inhalation, Rat REACH dossier information.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 4 mL/Kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.

basic fuchsin

Acute toxicity - oral

Notes (oral LD₅₀) Converted acute toxicity point estimate (cATpE) Acute Tox. 4 - H302 Harmful if swallowed.

ATE oral (mg/kg) 500.0

Carcinogenicity

Carcinogenicity Carc. 2 - H351 Suspected of causing cancer.

methanol

Acute toxicity - oral

Notes (oral LD₅₀) International Programme on Chemical Safety (IPCS) (1997) Environmental Health Criteria 196: Methanol. Geneva, World Health Organization. Toxic if swallowed.

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Notes (dermal LD₅₀) Converted acute toxicity point estimate (cATpE) Toxic in contact with skin.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Converted acute toxicity point estimate (cATpE) Toxic if inhaled.

ATE inhalation (gases ppm) 700.0

ATE inhalation (vapours mg/l) 3.0

Skin corrosion/irritation

Animal data Dose: 2.5cm x 2.5cm, 20 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative. REACH dossier information. Based on available data the classification criteria are not met.

Genotoxicity - in vivo Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.

ZN Carbol Fuchsin Concentrate

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 1 - H370

Target organs Eyes Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure LOAEL 2340 mg/kg/day, Oral, Monkey REACH dossier information. Based on available data the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

phenol

Toxicity Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 8.9 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 3.1 mg/l, Ceriodaphnia dubia

Acute toxicity - aquatic plants EC₅₀, 96 hours: 61.1 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 60 days: 0.077 mg/l, Cirrhina mrigala

Chronic toxicity - aquatic invertebrates NOEC, 16 days: 0.16 mg/l, Daphnia magna

ethanol

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 14200 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 5012 mg/l, Ceriodaphnia dubia REACH dossier information.

Acute toxicity - aquatic plants EC₅₀, 72 hours: 275 mg/l, Chlorella vulgaris REACH dossier information.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 120 hours: 250 mg/l, Brachydanio rerio (Zebra Fish)

Chronic toxicity - aquatic invertebrates NOEC, 9 days: 9.6 mg/l, Daphnia magna REACH dossier information.

methanol

Acute aquatic toxicity

ZN Carbol Fuchsin Concentrate

| | |
|---|--|
| Acute toxicity - fish | LC ₅₀ , 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill) EC ₅₀ , 96 hours: 12700 mg/l, Lepomis macrochirus (Bluegill) REACH dossier information. |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 96 hours: 18260 mg/l, Daphnia magna REACH dossier information. |
| Acute toxicity - aquatic plants | EC ₅₀ , 96 hours: ~ 22000 mg/l, Pseudokirchneriella subcapitata REACH dossier information. |
| Acute toxicity - microorganisms | IC ₅₀ , 3 hours: >1000 mg/l, Activated sludge REACH dossier information. |

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product. Volatile substances are degraded in the atmosphere within a few days.

Ecological information on ingredients.

phenol

| | |
|----------------------------|-------------------------------------|
| Phototransformation | Water - DT ₅₀ : 14 hours |
| Biodegradation | Water - Degradation 80.1%: 50 days |

ethanol

| | |
|-------------------------------|---|
| Biodegradation | Water - Degradation (74%): 10 days REACH dossier information. The substance is readily biodegradable. |
| Chemical oxygen demand | 1.99 g O ₂ /g substance REACH dossier information. |

methanol

| | |
|----------------------------|--|
| Phototransformation | Water - DT ₅₀ : 17.2 days REACH dossier information. |
| Biodegradation | Water - Degradation (95%): 20 days Water - Degradation (91%): 15 days Water - Degradation (88%): 10 days Water - Degradation (76%): 5 days REACH dossier information. The substance is readily biodegradable. |

12.3. Bioaccumulative potential

| | |
|----------------------------------|-----------------|
| Bioaccumulative potential | Not determined. |
| Partition coefficient | Not determined. |

Ecological information on ingredients.

phenol

| | |
|----------------------------------|---|
| Bioaccumulative potential | BCF: 17.5, Brachydanio rerio (Zebra Fish) |
| Partition coefficient | log Pow: 1.47 |

ethanol

ZN Carbol Fuchsin Concentrate

Partition coefficient log Pow: - 0.35 REACH dossier information.

methanol

Partition coefficient log Pow: -0.77 REACH dossier information.

12.4. Mobility in soil

Mobility The product contains organic solvents which will evaporate easily from all surfaces. The product contains substances which are water-soluble and may spread in water systems.

Ecological information on ingredients.

phenol

Adsorption/desorption coefficient Water - Koc: 14-26 @ 25°C

Henry's law constant 0.022 Pa m³/mol @ 20°C

Surface tension 71.3 mN/m @ 20°C

ethanol

Surface tension 24.5 mN/m @ 20°C/68°F REACH dossier information.

methanol

Mobility Mobile.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

phenol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

ethanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

methanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

12.6. Other adverse effects

Other adverse effects Not relevant.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

ZN Carbol Fuchsin Concentrate

| | |
|----------------------------|---|
| General information | Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and local regulations. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. |
| Disposal methods | Do not empty into drains. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Collect and place in suitable waste disposal containers and seal securely. Dispose of contents/container in accordance with national regulations. |

SECTION 14: Transport information

14.1. UN number

| | |
|------------------|------|
| UN No. (ADR/RID) | 2920 |
| UN No. (IMDG) | 2920 |
| UN No. (ICAO) | 2920 |
| UN No. (ADN) | 2920 |

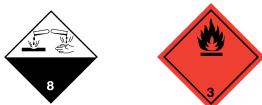
14.2. UN proper shipping name

| | |
|--------------------------------|---|
| Proper shipping name (ADR/RID) | CORROSIVE LIQUID, FLAMMABLE, N.O.S. (phenol, ethanol) |
| Proper shipping name (IMDG) | CORROSIVE LIQUID, FLAMMABLE, N.O.S. (phenol, ethanol) |
| Proper shipping name (ICAO) | CORROSIVE LIQUID, FLAMMABLE, N.O.S. (phenol, ethanol) |
| Proper shipping name (ADN) | CORROSIVE LIQUID, FLAMMABLE, N.O.S. (phenol, ethanol) |

14.3. Transport hazard class(es)

| | |
|-----------------------------|-----|
| ADR/RID class | 8 |
| ADR/RID subsidiary risk | 3 |
| ADR/RID classification code | CF1 |
| ADR/RID label | 8 |
| IMDG class | 8 |
| IMDG subsidiary risk | 3 |
| ICAO class/division | 8 |
| ICAO subsidiary risk | 3 |
| ADN class | 8 |
| ADN subsidiary risk | 3 |

Transport labels



14.4. Packing group

| | |
|-----------------------|----|
| ADR/RID packing group | II |
| IMDG packing group | II |
| ICAO packing group | II |

ZN Carbol Fuchsin Concentrate

ADN packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-E, S-C

ADR transport category 2

Emergency Action Code •3W

Hazard Identification Number 83
(ADR/RID)

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not relevant.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations EH40/2005 Workplace exposure limits.
The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 No. 758, as amended.
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)
(Amendment etc.) (EU Exit) Regulations 2019 No. 720, as amended.

EU legislation Council Directive of 20 May 1975 on the approximation of the laws of the Member States
relating to aerosol dispensers (75/324/EEC).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

ZN Carbol Fuchsin Concentrate

| | |
|---|--|
| Abbreviations and acronyms used in the safety data sheet | <p>ATE: Acute Toxicity Estimate.</p> <p>cATpE: Converted acute toxicity point estimate.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>DNEL: Derived No Effect Level.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>LC50: Lethal Concentration to 50 % of a test population.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>BCF: Bioconcentration Factor.</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p> |
| Classification abbreviations and acronyms | <p>Acute Tox. = Acute toxicity</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p> <p>Carc. = Carcinogenicity</p> <p>Eye Dam. = Serious eye damage</p> <p>Eye Irrit. = Eye irritation</p> <p>Flam. Liq. = Flammable liquid</p> <p>Muta. = Germ cell mutagenicity</p> <p>Skin Corr. = Skin corrosion</p> <p>STOT RE = Specific target organ toxicity-repeated exposure</p> <p>STOT SE = Specific target organ toxicity-single exposure</p> |
| Classification procedures according to SI 2019 No. 720 | <p>Flam. Liq. 3 - H226: Expert judgement. Acute Tox. 3 - H301, Acute Tox. 4 - H312, Acute Tox. 3 - H331, Skin Corr. 1B - H314, Eye Dam. 1 - H318, Muta. 2 - H341, Carc. 2 - H351, STOT RE 2 - H373, Aquatic Chronic 2 - H411: Calculation method.</p> |
| Revision comments | Revised regulations. |
| Revision date | 26/09/2022 |
| Revision | 9 |
| Supersedes date | 01/10/2017 |
| SDS number | 830 |

ZN Carbol Fuchsin Concentrate

Hazard statements in full

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H301+H331 Toxic if swallowed or if inhaled.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H370 Causes damage to organs .
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

The information in this safety data sheet was obtained from current and reliable sources. However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Pro-Lab Diagnostics control, it is the users responsibility to perform thorough testing of this product when used in combination with any other product. It is suggested that users familiarise themselves with this safety data sheet before handling the product.