



## Safety Data Sheet



according to Regulation (EC) No 1907/2006

**Carbolic-Fuchsine, Ziehl-Neelsen**

Revision date: 18.01.2017

Product code: 1A-586

Page 1 of 9

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Carbolic-Fuchsine, Ziehl-Neelsen

CAS No: 4197-24-4

EC No: 224-086-6

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

Use as laboratory reagent

**1.3. Details of the supplier of the safety data sheet**

Company name: Waldeck GmbH &amp; Co KG

Division Chroma

Street: Havixbecker Str. 62

Place: D-48161 Münster

Post-office box: 410180

D-48065 Münster

Telephone: +49(0)180/2247662

Telefax: +49(0)180/1247662

Responsible Department: Labor

Mo. – Do.: 08.00 – 17.00 Uhr, Fr.: 08.00 – 15.00 Uhr

**1.4. Emergency telephone**

+49(0)180/2247662

**number:****SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Germ cell mutagenicity: Muta. 2

Carcinogenicity: Carc. 1B

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

Suspected of causing genetic defects.

May cause cancer.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**4,4'-(4-iminocyclohexa-2,5-dienylidenemethylene)dianiline hydrochloride, C.I. Basic Red 9  
phenol

Signal word:

Danger

Pictograms:

**Hazard statements**

H314

Causes severe skin burns and eye damage.

H341

Suspected of causing genetic defects.

H350

May cause cancer.

**Carbolic-Fuchsine, Ziehl-Neelsen**

Revision date: 18.01.2017

Product code: 1A-586

Page 2 of 9

**Precautionary statements**

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

| CAS No   | Chemical name  |              |          | Quantity  |
|----------|--|--------------|----------|-----------|
|          | EC No  | Index No     | REACH No |           |
|          | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |              |          |           |
| 569-61-9 | 4,4'-(4-iminocyclohexa-2,5-dienylidenemethylene)dianiline hydrochloride, C.I. Basic Red 9                        |              |          | 80 - 90 % |
|          | 209-321-2  | 611-031-00-X |          |           |
|          | Carc. 1B; H350   |              |          |           |
| 108-95-2 | phenol   |              |          | 1 - 10 %  |
|          | 203-632-7  | 604-001-00-2 |          |           |
|          | Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Skin Corr. 1B; H341 H331 H311<br>H301 H373 ** H314 |              |          |           |

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

**After inhalation**

Provide fresh air. Medical treatment necessary.

**After contact with skin**

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

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

Treat symptomatically.

**Carbolic-Fuchsine, Ziehl-Neelsen**

Revision date: 18.01.2017

Product code: 1A-586

Page 3 of 9

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.  
Carbon dioxide (CO<sub>2</sub>), Extinguishing powder, Foam.

**5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated: Hazardous combustion products

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.  
Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid generation of dust.  
Do not breathe dust.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

**Advice on storage compatibility**

No special measures are necessary.

**Further information on storage conditions**

storage temperature: at room temperature

**7.3. Specific end use(s)**

Use as laboratory reagent

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**



# Safety Data Sheet



according to Regulation (EC) No 1907/2006

## Carbolic-Fuchsine, Ziehl-Neelsen

Revision date: 18.01.2017

Product code: 1A-586

Page 4 of 9

### Exposure limits (EH40)

| CAS No   | Substance | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|----------|-----------|-----|-------------------|-----------|---------------|--------|
| 108-95-2 | Phenol    | 2   | 7.8               |           | TWA (8 h)     | WEL    |
|          |           | 4   | 16                |           | STEL (15 min) | WEL    |

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                |
|-----------------|----------------|
| Physical state: | solid          |
| Colour:         | dark green     |
| Odour:          | characteristic |

#### Test method

|           |                |
|-----------|----------------|
| pH-Value: | not determined |
|-----------|----------------|

#### Changes in the physical state

|  |                |
|--|----------------|
| Melting point:                           | not determined |
| Initial boiling point and boiling range: | not determined |
| Flash point:                             | not applicable |

#### Flammability

|                         |                |
|-------------------------|----------------|
| Solid:                  | not determined |
| Gas:                    | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |

#### Auto-ignition temperature



## Safety Data Sheet



according to Regulation (EC) No 1907/2006

**Carbolic-Fuchsine, Ziehl-Neelsen**

Revision date: 18.01.2017

Product code: 1A-586

Page 5 of 9

Solid: not determined

Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**

Not oxidizing.

Vapour pressure: not determined

Density: not determined

Water solubility: easily soluble

**Solubility in other solvents**

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

**9.2. Other information**

Solid content: not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Strong acid, Oxidising agent, Reducing agent.

**10.4. Conditions to avoid**

Protect against direct sunlight. Humidity.

**10.5. Incompatible materials**

No information available.

Strong acid, Oxidising agent, Reducing agent.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

| CAS No   | Chemical name            |                 |         |          |
|----------|--------------------------|-----------------|---------|----------|
|          | Exposure route           | Dose            | Species | Source   |
| 108-95-2 | phenol                   |                 |         |          |
|          | oral                     | LD50 317 mg/kg  | Rat     |          |
|          | dermal                   | LD50 660 mg/kg  | Rat     | OECD 402 |
|          | inhalative vapour        | ATE 3 mg/l      |         |          |
|          | inhalative (4 h) aerosol | LC50 0,316 mg/l | Rat     |          |

**Additional information on tests**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP]. Special hazards

**Carbolic-Fuchsine, Ziehl-Neelsen**

Revision date: 18.01.2017

Product code: 1A-586

Page 6 of 9

arising from the substance or mixture!

**SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

| CAS No   | Chemical name           |                |           |                                     |          |
|----------|-------------------------|----------------|-----------|-------------------------------------|----------|
|          | Aquatic toxicity        | Dose           | [h]   [d] | Species                             | Source   |
| 108-95-2 | phenol                  |                |           |                                     |          |
|          | Acute fish toxicity     | LC50 5,0 mg/l  | 96 h      | Oncorhynchus mykiss (Rainbow trout) |          |
|          | Acute algae toxicity    | ErC50 229 mg/l | 72 h      |                                     | GESTIS   |
|          | Fish toxicity           | NOEC 4 mg/l    | 14 d      | Poecilia reticulata (Guppy)         | OECD 204 |
|          | Acute bacteria toxicity | (766 mg/l)     |           |                                     |          |

**12.2. Persistence and degradability**

The product has not been tested.

| CAS No   | Chemical name                                       |       |    |   |
|----------|---|-------|----|---|
|          | Method  | Value | d  | Source                                  |
|          | Evaluation  |       |    |   |
| 108-95-2 | phenol  |       |    |   |
|          | Persistence and degradability                       | 85 %  | 14 | OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F |
|          | Readily biodegradable (according to OECD criteria). |       |    |   |

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

| CAS No   | Chemical name | Log Pow |
|----------|---------------|---------|
| 108-95-2 | phenol        | 1,47    |

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The product has not been tested.

**12.6. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**



## Safety Data Sheet



according to Regulation (EC) No 1907/2006

**Carbolic-Fuchsine, Ziehl-Neelsen**

Revision date: 18.01.2017

Product code: 1A-586

Page 7 of 9

**Land transport (ADR/RID)****14.1. UN number:**

UN 2923

**14.2. UN proper shipping name:**

CORROSIVE SOLID, TOXIC, N.O.S. (Pararosaniline Chloride, Phenol)

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

II

Hazard label:

8+6.1



Classification code:

CT2

Special Provisions:

274

Limited quantity:

1 kg

Excepted quantity:

E2

Transport category:

2

Hazard No:

86

Tunnel restriction code:

E

**Inland waterways transport (ADN)****14.1. UN number:**

UN 2923

**14.2. UN proper shipping name:**

CORROSIVE SOLID, TOXIC, N.O.S. (Pararosaniline Chloride, Phenol)

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

II

Hazard label:

8+6.1



Classification code:

CT2

Special Provisions:

274 802

Limited quantity:

1 kg

Excepted quantity:

E2

**Marine transport (IMDG)****14.1. UN number:**

UN 2923

**14.2. UN proper shipping name:**

CORROSIVE SOLID, TOXIC, N.O.S. (Pararosaniline Chloride, Phenol)

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

II

Hazard label:

8+6.1



Special Provisions:

274

Limited quantity:

1 kg

Excepted quantity:

E2

EmS:

F-A, S-B

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:**

UN 2923

**14.2. UN proper shipping name:**

CORROSIVE SOLID, TOXIC, N.O.S. (Pararosaniline Chloride, Phenol)

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

II



## Safety Data Sheet



according to Regulation (EC) No 1907/2006

**Carbolic-Fuchsine, Ziehl-Neelsen**

Revision date: 18.01.2017

Product code: 1A-586

Page 8 of 9

Hazard label:

8+6.1



Special Provisions:

A3 A803

Limited quantity Passenger:

5 kg

Passenger LQ:

Y844

Excepted quantity:

E2

IATA-packing instructions - Passenger:

859

IATA-max. quantity - Passenger:

15 kg

IATA-packing instructions - Cargo:

863

IATA-max. quantity - Cargo:

50 kg

**14.6. Special precautions for user**

No information available.

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

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC): 5 %

2004/42/EC (VOC): 5 %

**Additional information**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

3 - highly water contaminating

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**Relevant H and EUH statements (number and full text)**

H301

Toxic if swallowed.



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Carbolic-Fuchsine, Ziehl-Neelsen**

Revision date: 18.01.2017

Product code: 1A-586

Page 9 of 9

|      |  |
|------|--|
| H311 | Toxic in contact with skin.  |
| H314 | Causes severe skin burns and eye damage.                           |
| H331 | Toxic if inhaled.  |
| H341 | Suspected of causing genetic defects.                              |
| H350 | May cause cancer.  |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*