

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identification

**Trade name:** Trypan blue solution (0,4%) for cell biology

**Article Number:** 1475

**CAS number:** 72-57-1

**REACH No.:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

**Identified uses:**

- Laboratory chemicals
- Manufacture of substances

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

**Manufacturer/Supplier:**

neoFroxx GmbH  
Marie-Curie-Str. 3  
D-64683 Einhausen  
[info@neofroxx.com](mailto:info@neofroxx.com)

**Further information obtainable from:**

Dep. Quality Control

### 1.4. Emergency telephone number

+49 (6251) 989 24 - 0 (during normal business hours)

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Carcinogenicity (Category 1B), H350

For the full text of the H-Statements mentioned in this section, see section 16.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

T Toxic R45

For the full text of the R-phrases mentioned in this section, see section 16.

### 2.2. Label elements

**Labelling according Regulation (EC) No 1272/2008**

**Pictogram:**



**Signal word:** Danger

**Hazard statement(s):**

H350 May cause cancer.

**Precautionary statement(s)**

P201 Obtain special instructions before use.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

**Supplemental Hazard Statements**

none

Restricted to professional users.

**According to European Directive 67/548/EEC as amended.**

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## Hazard symbol(s)

T Toxic



## R-phrases(s)

R45 May cause cancer.

## S-phrases(s)

S53 Avoid exposure - obtain special instructions before use.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Restricted to professional users.

## 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 3. Composition / information on ingredients

### 3.1. Mixtures

Formula: C<sub>34</sub>H<sub>24</sub>N<sub>6</sub>Na<sub>4</sub>O<sub>14</sub>S<sub>4</sub>

Molecular weight: 960,81 g/mol

### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Tetrasodium 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-disulphonate]		
CAS-No.: 72-57-1 EC-No.: 200-786-7 Index-No.: 611-024-00-1	Carc. 1B; H350	>= 0,1 - < 1 %

### Hazardous ingredients according to Directive 1999/45/EC

Component	Classification	Concentration
Tetrasodium 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-disulphonate]		
CAS-No.: 72-57-1 EC-No.: 200-786-7 Index-No.: 611-024-00-1	T, Carc.Cat.2, R45	>= 0,1 - < 10 %

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

## 4. First aid measures

### 4.1. Description of first aid measures

#### General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled:

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

#### In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

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**In case of eye contact:**

Flush eyes with water as a precaution.

**If swallowed:**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

## 5. Firefighting measures

5.1. Extinguishing media

**Suitable extinguishing media:**

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

5.2. Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further information

No data available

## 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

For personal protection see section 8.

6.2. Environmental precautions

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

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

## 7. Handling and storage

7.1. Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. Exposure controls / personal protection

### 8.1. Control parameters

Components with workplace control parameters

### 8.2. Exposure controls

#### **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### **Personal protective equipment:**

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### *Full contact*

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

#### *Splash contact*

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection:**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure:**

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

## 9. Physical and chemical properties

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

Appearance Form: liquid

Odour: No data available

Odour Threshold: No data available

pH: No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: No data available

Water solubility: No data available

Partition coefficient: noctanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available

Oxidizing properties: No data available

### 9.2. Other safety information

No data available

## 10. Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

No data available

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity:

No data available

#### Skin corrosion/irritation:

No data available

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**Serious eye damage/eye irritation:**

No data available

**Respiratory or skin sensitisation:**

No data available

**Germ cell mutagenicity:**

No data available

**Carcinogenicity:**

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Tetrasodium 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-disulphonate])

**Reproductive toxicity:**

No data available

**Specific target organ toxicity - single exposure:**

No data available

**Specific target organ toxicity - repeated exposure:**

No data available

**Aspiration hazard:**

No data available

**Additional Information:**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence (Tetrasodium 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-disulphonate])

## 12. Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

No data available

## 13. Disposal considerations

13.1. Waste treatment methods

**Product:**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging:**

Dispose of as unused product.

## 14. Transport information

### 14.1. UN number

ADR/RID: -

IMDG: -

IATA: -

### 14.2. UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### 14.3. Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

### 14.4. Packaging group

ADR/RID: -

IMDG: -

IATA: -

### 14.5. Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6. Special precautions for user

No data available

## 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available

### 15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

## 16. Other information

### Full text of H-Statements referred to under sections 2 and 3.

Carc. Carcinogenicity

H350 May cause cancer.

### Full text of R-phrases referred to under sections 2 and 3

T Toxic

R45 May cause cancer.

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only 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. Nobody shall be held liable for any damage resulting from handling or from contact with the above product.