

# Material Safety Data Sheet (MSDS)

Date: 06/OCT/2017  
Version 3.0

## 1. Product and Company Information

Product Name: TRYPAN BLUE SOLUTION 0.02 %  
Product Number: 102226  
Company: SYNENTEC GmbH  
Otto-Hahn-Str. 9a  
25337 Elmshorn  
Germany  
Technical Phone: +49-251-265381-68  
E-Mail Address: order@synentec.com

## 2. Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT  
Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]  
Carcinogenicity (Category 1B)  
Classification according to EU Directives 67/548/EEC or 1999/45/EC  
May cause cancer.

## 3. Composition/Information on Ingredients

Product Name: TRYPAN BLUE SOLUTION 0.02 %  
CAS #: None  
EC no: None  
Annex I Index Number: None

Ingredient Name: Tetrasodium 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-disulphonate]  
Percent: 0.02  
CAS #: 72-57-1  
EC no: 200-786-7  
Index Number: 611-024-00-1  
Pictogram:



H-Phrases: H351 Suspected of causing cancer

P-Phrases: P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P308 + P313 If exposed or concerned: Get medical advice/ attention.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

## 4. First Aid Measures

### GENERAL ADVICE

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

### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### AFTER SKIN CONTACT

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

### AFTER EYE CONTACT

Flush eyes with water as a precaution.

### AFTER INGESTION

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

## 5. Fire Fighting Measures

### EXTINGUISHING MEDIA

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

### SPECIAL RISKS

Nature of decomposition products not known.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6. Accidental Release Measures

### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### METHODS FOR CLEANING UP

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

## 7. Handling and Storage

### HANDLING

Directions for safe handling: Avoid inhalation of vapors and mist. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### STORAGE

Conditions of safe storage: 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.

## 8. Exposure Controls / Personal Protection

### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

## 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.

### 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).

## 9. Physical and Chemical Properties

Appearance Physical State: Liquid at room temperature

| <i>Property</i>       | <i>Value</i> |
|-----------------------|--------------|
| pH                    | N/A          |
| BP/BP Range           | N/A          |
| MP/MP Range           | N/A          |
| Flash Point           | N/A          |
| Flammability          | N/A          |
| Autoignition Temp     | N/A          |
| Oxidizing Properties  | N/A          |
| Explosive Properties  | N/A          |
| Explosion Limits      | N/A          |
| Vapor Pressure        | N/A          |
| Partition Coefficient | N/A          |
| Viscosity             | N/A          |
| Vapor Density         | N/A          |
| Saturated Vapor Conc. | N/A          |
| Evaporation Rate      | N/A          |
| Bulk Density          | N/A          |
| Decomposition Temp.   | N/A          |
| Solvent Content       | N/A          |
| Water Content         | N/A          |
| Surface Tension       | N/A          |
| Conductivity          | N/A          |
| Miscellaneous Data    | N/A          |
| Solubility            | N/A          |

## 10. Stability and Reactivity

|                                    |                         |
|------------------------------------|-------------------------|
| Reactivity                         | N/A                     |
| Chemical stability                 | N/A                     |
| Possibility of hazardous reactions | N/A                     |
| Conditions to avoid                | N/A                     |
| Incompatible materials             | Strong oxidizing agents |

Hazardous decomposition products N/A

## 11. Toxicological Information

|   |  |
|---|--|
| Acute toxicity                                      | N/A  |
| Skin corrosion/irritation                           | N/A  |
| Serious eye damage/eye irritation                   | N/A  |
| Respiratory or skin sensitization                   | N/A  |
| Germ cell mutagenicity                              | N/A  |
| Carcinogenicity                                     | IARC: 2B - Group 2B: Possibly carcinogenic to humans<br>(Tetrasodium 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis<br>(azo)] bis[5-amino-4-hydroxynaphthalene-2,7-disulphonate]) |
| Reproductive toxicity                               | N/A  |
| Specific target organ toxicity –<br>single exposure | N/A  |
| repeated exposure                                   | N/A  |
| Aspiration hazard                                   | N/A  |
| Potential health effects                            |  |
| Inhalation  | May be harmful if inhaled. May cause respiratory tract irritation.   |
| Ingestion   | May be harmful if swallowed.   |
| Skin  | May be harmful if absorbed through skin. May cause skin irritation.  |
| Eyes  | May cause eye irritation.  |

### Signs and Symptoms of Exposure

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

### Additional Information

RTECS: Not available

## 12. Ecological Information

No data available.

## 13. Disposal Considerations

### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Disposal should be made in accordance with existing disposal practices employed for infectious waste at your institution. Observe all federal, state, and local environmental regulations.

## 14. Transport Information

### RID/ADR

Non-hazardous for road transport.

### IMDG

Non-hazardous for sea transport.

### IATA

Non-hazardous for air transport.

## 15. Regulatory Information

### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

Caution: Substance not yet fully tested (EU).

### COUNTRY SPECIFIC INFORMATION

Germany

## 16. Other Information

### WARRANTY

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. SYNENTEC GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

## 17. Disclaimer

For R&D use only. Not for drug, household or other uses.