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Safety Data Sheet (SDS)

Revision Date:
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: Trypan Blue, 0.4% Solution
Product Code: TRY-B100
CAS Number: 72-57-1
EC Number: -

1.2 Details of the supplier of the safety data sheet

Company: EcoTech Biotechnology
Address: Universite Mah. Cat Yolu Cad. Ata Teknokent Sitesi B Blok No: 74/113 Yakutiye Erzurum
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1.3 Product use

For research use only

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS US classification

Carcinogenicity Category 2 H351 Suspected of causing cancer

2.2 GHS Label elements, including precautionary statements

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Hazard statements (GHS US) :

Precautionary statements (GHS US) :

Warning

H351 - Suspected of causing cancer

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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3 Other hazards

None known.

2.4 Unknown acute toxicity (GHS US)

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixture

Name	Common Name (Synonyms)	Product Identifier	% GHS	US Classification
trypan blue (Note A)	2,7-naphthalenedisulfonic acid, 3,3'- [[3,3'-dimethyl[1,1'-biphenyl-4,4'- diyl]bis(azo)]bis[5-amino-4- hydroxy-, tetrasodium salt / 3,3'- [(3,3'- dimethyl[1,1'-biphenyl]-4,4'- diyl]bis(azo)]bis[5-amino-4- hydroxy- 2,7-naphthalenedisulfonic acid]tetrasodium salt / 3,3'-[3,3'- dimethyl-4,4'- biphenylene]bis(azo)]bis- (5-amino-4-hydroxy-2,7- naphthalenedisulfonic acid)tetrasodium salt / amanil sky blue / amanil sky blue R / amidine blue 4B / azidinblau 3B / azidine bleu 3B / azurro diretto 3B / bencidal blue 3B / benzaminblau 3B / benzamine blue / benzamine blue 3B / benzanil blue 3BN / benzanil blue R / benzo blue / benzo blue 3B / benzo blue 3BS / bleu diamine / bleue diretto 3B / blue 3B / blue EMB / brasilamina blue 3B / brasilazina blue 3B / C.I. 23850 / C.I. direct blue 14 / C.I. direct blue 14, tetrasodium salt / centraline blue 3B / chloramiblau 3B / chloramine blue / chloramine blue 3B / chlorazol blue 3B / chrome leather blue 3B / congo blue / congo blue 3B / congoblau 3B / cresotine blue 3B / diamine blue 3B / diamineblue / dianil blue / dianil blue H3G / dianilblau / dianilblau H3G / diaphtamine blue TH / diazine blue 3B / diazol blue 3B / diphenyl blue 3B / direct blue 14 / direct blue 3B / direct blue 3BX / direct blue D3B / direct blue FFN / direct blue H3G / direct blue M3B / directakol blue 3BL / directblau 3B / hispamin blue 3BX / naphtamine blue 2B / naphtamine blue 3BX / naphthaminblau 3BX / naphthamine blue 3BX / naphthylamine blue / niagara blue / niagara blue 3B / orion blue 3B / paramine blue 3B / parkibleu / parkipan / pontamine blue 3BX / pyrazol blue 3B / pyrotroblau / renolblau 3B / sodium ditolyldisazobis-8- amino-1- naphthol-3,6-disulfonate / sodium ditolyldisazobis-8-amino-1- naphthol-3,6-disulphonate / TB / tetrasodium 3,3'-[(3,3'- dimethyl[1,1'- biphenyl]-4,4'- diyl]bis(azo)]bis[5-amino-	(CAS-No.) 72-57-1	0.05 - 0.5	Carc. 2, H351

	4- hydroxynaphthalene-2,7-disulphonate] / tetrasodium 3,3'- [3,3'-dimethyl-4,4'-biphenylene)bis(azo)]bis(5-amino4-hydroxy-2,7- naphthalenedisulfonate) / trianol direct blue 3B / triazolblau 3BX / tripan blue / trypan blue BPC / trypan blue sodium salt / trypane blue			
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Note A : Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled:	If breathed in, move person into fresh air. Seek medical advice if discomfort occurs.
If swallowed:	Do not induce vomiting. Wash out mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.
In case of skin contact:	Wash off with plenty of water. Remove contaminated clothing and launder before reuse.
In case of eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation occurs.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Water spray. Dry powder. Foam. Carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No additional information available

5.3 Advice for firefighters

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

5.4 Further information

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Ensure adequate ventilation.

Use personal protective equipment. Avoid formation of dust. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal. Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly.

Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed. Store in a cool, dry, well-ventilated area away from incompatible substances.

Recommended storage temperature 22- 25 °C

Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Trypan Blue 0.4% Solution (72-57-1)

No additional information available

Trypan blue (72-57-1)

No additional information available

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash hands, forearms and face after handling.

Personal protective equipment

Eye/face protection: Wear safety glasses with side-shields conforming to European Standard EN166.

Hand protection: Wear protective gloves conforming to EU Directive 89/686/EEC and European Standard EN374. Gloves must be inspected prior to use. Avoid skin contact with product when remove gloves. Dispose of contaminated gloves safely after use.

Skin and body protection: Wear laboratory coat or impervious clothing. Choose appropriate body protection according to the amount and concentration of the substance at the work place.

Respiratory protection: Wear suitable respiratory equipment in case of inadequate ventilation.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- | | |
|--|-------------------|
| a) Appearance: | Liquid |
| b) Odor: | No data available |
| c) Odor Threshold: | No data available |
| d) pH: | No data available |
| e) Melting point/freezing point: | No data available |
| f) Initial boiling point and boiling range: | No data available |
| g) Flash point: | No data available |
| h) Evaporation rate: | No data available |
| i) Flammability (solid, gas): | Not applicable. |
| j) Upper / lower flammability or explosive limits: | No data available |

k) Vapor pressure:	No data available
l) Vapor density:	No data available
m) Relative density:	No data available
n) Solubility(ies):	No data available
o) Partition coefficient: <i>n</i> -octanol / water:	No data available
p) Auto-ignition temperature:	No data available
q) Decomposition temperature:	No data available
r) Viscosity:	No data available
s) Explosive properties:	No data available
t) Oxidizing properties:	No data available

SECTION 10. STABILITY AND REACTIVITY

Stability and reactivity

Reactivity:	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability:	Stable at a cool and dry place.
Possibility of hazardous reactions:	No dangerous reactions known under normal conditions of use.
Conditions to avoid:	None under recommended storage and handling conditions (see section 7).
Incompatible materials:	No additional information available
Hazardous decomposition products:	No data available

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) Acute toxicity: Not classified

Component	LD50 Rat	ATE US (oral)
trypan blue (72-57-1)	6200 mg/kg (Rat, Oral)	6200 mg/kg body weight

b) Skin corrosion / irritation: Not classified.
c) Serious eye damage/eye irritation: Not classified.
d) Carcinogenicity: Suspected of causing cancer..

IARC : 2B - Possibly carcinogenic to humans

e) Reproductive toxicity: Not classified.
f) STOT - SE: Not classified.
g) STOT - RE: Not classified.
h) Aspiration hazard: Not classified.

11.2 Potential health effects

Ingestion: May be harmful if swallowed.
Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: Causes serious eye irritation.

11.3 Additional Information

No additional information is available

SECTION 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2 Persistence and degradability

Biodegradability in water: no data available.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No additional data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Contact a licensed professional waste disposal service to dispose of this material. Dispose of in accordance with federal, state and local requirements.

Contaminated packaging

Dispose of as unused product. Do not reuse empty containers.

Section 14. TRANSPORT INFORMATION

DOT (US)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15. REGULATORY INFORMATION

15.1 US Federal regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 10 lb

SECTION 16. OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE: Specific Target Organ Toxicity - Single Exposure

STOT-RE: Specific Target Organ Toxicity - Repeated Exposure

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent very Bioaccumulative and toxic

ADR: European Agreement concerning the international carriage of Dangerous goods by Road

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IMDG: International Maritime code for Dangerous Goods

REACH: Registration, Evaluation, Authorization and restriction of Chemicals

RID: Regulations concerning the International transport of Dangerous goods by rail