Safety data sheet

Trypan Blue, 0.4% Solution

Product name Trypan Blue, 0.4% Solution	Catalog no. TRY-B100
Synonyms -	SDS revision 23 August 2021
CAS no. 72-57-1	Format version / date 3 / 24 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	Trypan Blue, 0.4% Solution
Product code	TRY-B100
CAS number	72-57-1
EC number	-
Recommended use	For research use only.
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
Address	Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10 Yakutiye Erzurum Türkiye
Telephone	0090 544 327 34 97
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

Classification	GHS US: Carcinogenicity Category 2 (H351): Suspected of causing cancer.
Symbols / pictograms	
Signal word	Warning
Hazard statements	H351: Suspected of causing cancer.
Precautionary statements - Prevention	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.
Precautionary statements - Response	P308+P313: If exposed or concerned: Get medical advice/attention.
Precautionary statements - Storage	P405: Store locked up.
Precautionary statements - Disposal	P501: Dispose of contents/container at a hazardous or special waste collection point according to applicable regulations.
Other hazards	None known. Unknown acute toxicity (GHS US): Not applicable.

Composition & response

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03 COMPOSITION / INFORMATION ON INGREDIENTS

Product / mixture	Trypan Blue, 0.4% Solution.
Hazardous component	Trypan blue, CAS 72-57-1; 0.05-0.5% (GHS US mixture table); Carcinogenicity Category 2 (H351).
Synonyms	Trypan blue; trypan blue sodium salt; Direct Blue 14; C.I. 23850; Niagara Blue 3B; C.I. Direct Blue 14, tetrasodium salt.
Mixture note	The solution is a mixture. Not applicable as a single pure substance.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Move person to fresh air. Seek medical advice if discomfort occurs.
Ingestion	Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person; seek medical attention.
Skin contact	Wash with plenty of water. Remove contaminated clothing and launder before reuse.
Eye contact	Flush eyes immediately with plenty of water for at least 15 minutes; seek medical advice if irritation occurs.
Most important symptoms / effects	No additional information available.
Immediate medical attention / treatment	Treat symptomatically.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, dry powder, foam, carbon dioxide.
Special hazards arising from the substance or mixture	No additional information available.
Advice for firefighters	Wear self-contained breathing apparatus and full protective clothing.
Further information	No data available

Safe use & protection

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06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment; avoid inhaling dust, vapours, mist or gas.
Environmental precautions	Do not let product enter drains.
Methods and materials for containment and cleaning up	Collect in suitable closed containers for disposal. Dispose of residues at an authorised site.
Reference to other sections	See Section 13.

07 HANDLING AND STORAGE

Precautions for safe handling	Ensure adequate workstation ventilation and obtain special instructions before use. Use local exhaust ventilation where necessary, minimise workplace exposure, wear appropriate personal protective equipment. Do not eat, drink or smoke during use; wash hands afterwards.
Hygiene measures	Keep working clothes separate from street clothes; launder separately. Clean contaminated work surfaces regularly.
Conditions for safe storage	Keep container tightly closed in a cool, dry, well-ventilated place away from incompatibles. Recommended storage temperature: 22-25°C. Store locked up.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Trypan Blue (CAS 72-57-1): No additional workplace exposure control values 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.
Eye / face protection	Wear safety glasses with side-shields conforming to European Standard EN166.
Hand protection	Wear protective gloves conforming to European Standard EN374 and inspect before use. Remove safely and dispose of contaminated gloves.
Skin and body protection	Wear laboratory coat or impervious clothing. Choose protection appropriate for the amount and concentration at the workplace.
Respiratory protection	Wear suitable respiratory equipment in case of inadequate ventilation.

Material properties

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09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Odor	No data available
Odor 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)	Not applicable.
Upper / lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient: n-octanol / 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

10 STABILITY AND REACTIVITY

Reactivity	Non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable when kept cool and dry.
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

Health & environment

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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Not classified. Trypan blue (CAS 72-57-1): LD50 oral (rat) 6200 mg/kg; ATE US oral 6200 mg/kg body weight.
Skin corrosion / irritation	Not classified.
Serious eye damage / eye irritation	Not classified.
Carcinogenicity	Suspected of causing cancer (H351). IARC 2B: Possibly carcinogenic to humans.
Reproductive toxicity	Not classified.
STOT - SE	Not classified.
STOT - RE	Not classified.
Aspiration hazard	Not classified.

11.2 Potential health effects

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

11.3 Additional information

No additional information is available.

12 ECOLOGICAL INFORMATION

Ecotoxicity	Not considered harmful to aquatic organisms or likely to cause long-term adverse environmental effects.
Persistence and degradability	Biodegradability in water: No data available.
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No additional data available.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Use a licensed professional waste disposal service and dispose of in accordance with applicable national and local requirements.
Contaminated packaging	Dispose of as unused product. Do not reuse empty containers.

Transport & reference

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14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
DOT (US)	Not applicable	Not applicable	Not applicable	Not applicable	No data available
Transport by sea	Not applicable	Not applicable	Not applicable	Not applicable	No data available
Air transport	Not applicable	Not applicable	Not applicable	Not applicable	No data available

15 REGULATORY INFORMATION

US Federal regulations	Listed on the United States TSCA inventory. Subject to reporting requirements under SARA Section 313.
CERCLA reportable quantity	10 lb.

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