

Material Safety Data Sheet

Section 1 - Product and Company Identification

- 1.1 **Product Name:** Trypan Blue Solution 5mg/ml in saline.
- 1.2 **Catalog Number:** 03-102-1
- 1.3 **Synonyms:** NA
- 1.4 **Product Use:** Trypan Blue is most commonly utilized as a vital stain to distinguish viable from non-viable cells. It is a diazo dye.
- 1.5 **Manufacturer/Supplier:** Biological Industries Israel Beit Haemek Ltd.
Address: Kibbutz Beit Haemek, 25115, Israel
- 1.6 **General Information:** +972-(0)4-9960595
Transportation Emergency Number: NA

Section 2 - Hazards Identification

2.1 **GHS Classification:**

Health	Environmental	Physical
Carcinogenicity (Cat. 2)	NA	NA

GHS Label: Warning

Symbols:



Hazard Statements H350 May cause Cancer	Precautionary Statements P201: Obtain special instructions before use. P308+P313: If exposed or concerned: Get medical advice/attention.
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Section 3 - Composition / Information on Ingredients

3.1

Component	CAS Number	Weight %
Trypan Blue	72-57-1	0.5%

Section 4 - First Aid Measures

- 4.1 Eyes:** Eye irritation is likely. In case of eye irritation, flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.
- 4.2 Skin:** Itching or irritation of the skin is likely. In case of skin irritation, immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Remove contaminated clothing before reuse.
- 4.3 Ingestion:** Ingestion of mixture is unlikely. Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.
- 4.4 Inhalation:** Irritation by inhalation is unlikely. In case of Nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, breathing difficulty, tremors, weakness, red flushing of face, irritability: Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

Section 5 - Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Use water, dry chemical, foam, or carbon dioxide to extinguish fire.
- 5.2 Fire Fighting Procedures:** Exposed firefighters should wear protective clothing.
- 5.3 Unusual Fire and Explosion Hazards:** NA
- 5.4 Combustion Products:** NA.

Section 6 - Accidental Release Measures

- 6.1** Collect released mixture with suitable absorbing measures. Extremely staining.

Section 7 - Handling and Storage



- 7.1 Handling:** Do not allow contact with eyes or skin. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. All handling of open containers should be within appropriate laboratory settings and practices.
- 7.2 Storage:** Store in tightly closed containers in a 15-30°C environment. Keep containers tightly closed and upright when not in use. Protect against physical damage.

Section 8 - Exposure Controls/Personal Protections

- 8.1 Exposure Limits:** not limited
- 8.2 Engineering Controls:** Not needed. To be handled aseptically.
- 8.3 Personal Protective Equipment (PPE):**
- 8.3.1 Eye Protection:** Wear safety goggles. Have eye-wash stations available where eye contact can occur.
- 8.3.2 Skin Protection:** Avoid skin contact. Wear gloves impervious to conditions of use.
- 8.3.3 Respiratory Protection:** NA

Section 9 - Physical/Chemical Protections

- 9.1 Flashpoint:** NA
- 9.2 Autoignition Temperature:** NA
- 9.3 Boiling Point:** NA
- 9.4 Melting Point:** NA
- 9.5 Vapor Pressure:** NA
- 9.6 Vapor Density (Air=1):** NA
- 9.7 % Solubility in Water:** complete @ 20°C
- 9.8 Pour Point:** NA
- 9.9 Molecular Formula:** Mixture Solution
- 9.10 Odor/Appearance:** Liquid dark blue color.
- 9.11 Lower Flammability Limit:** NA
- 9.12 Upper Flamimability Limit:** NA
- 9.13 Specifc Gravity:** NA
- 9.14 % Volatile:** NA
- 9.15 Evaporation Rate (Water=1):** NA
- 9.16 Viscosity:** NA
- 9.17 Octanol/Water Partition Coefficient:** NA
- 9.18 pH:** NA
- 9.19 Molecular Weight:** Mixture Solution

Section 10 - Stability / Reactivity

- 10.1 Stability/Incompatibility:** NA



10.2 Hazardous Reactions/Decomposition Products: NA

Section 11 - Toxicological Information

- 11.1 Signs and Symptoms of Overexposure: NA
- 11.2 Acute Effects: NA
- 11.3 Eye Contact: Likely, may cause some irritation.
- 11.4 Skin Contact: Likely. May cause allergic skin reaction. Will stain skin.
- 11.5 Inhalation: Unlikely, may cause irritation
- 11.6 Ingestion: Unlikely, may cause gastrointestinal irritation.
- 11.7 Target Organ Effects: NA
- 11.8 Chronic Effects: NA.
- 11.9 Medical Conditions Aggravated by Exposure: NA
- 11.10 Acute Toxicity Values
- Oral LD₅₀ (Rat) = NA
- Dermal LD₅₀ (Rabbit) = NA
- Inhalation LC₅₀ (Rat) = NA

Section 12 - Ecological Information

- 12.1 Not Available.
- 12.2 Bioaccumulation is not expected to be significant. This product is readily biodegradable.

Section 13 - Disposal Considerations

- 13.1 The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with Local regulations.

Section 14 - Transport Information

- 14.1 U.S. Department of Transportation (DOT)
- 14.1.1 Proper Shipping Name: NA
- 14.1.2 Hazard Class: NA.
- 14.1.3 UN/NA Number: NA
- 14.1.4 Packing Group: Not Available.
- 14.1.5 Labels Required: No specific Labels required
- 14.2 International Maritime Organization (IMDG)
- 14.2.1 Proper Shipping Name: NA
- 14.1.2 Hazard Class: NA.
- 14.1.3 UN/NA Number: NA
- 14.1.4 Packing Group: Not Available.
- 14.1.5 Labels Required: No specific Labels required

Section 15 - Regulatory Information

- 15.1 U.S. Federal Regulations
- 15.1.1 Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): NA



- 15.1.2 Toxic Substances Control Act (TSCA): NA
- 15.1.3 Clean Water Act (CWA): NA
- 15.1.4 Clean Air Act (CAA): NA

15.2 International Regulations

- 15.2.1 Canadian Environmental Protection Act: NA
- 15.2.2 Canadian Workplace Hazardous Materials Information System (WHMIS): NA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

- 15.2.3 European Inventory of Existing Chemicals (EINECS): 200-786-7
- 15.2.4 EU Classification: NA
- 15.2.5 EU Risk (R) and Safety (S) Phrases:

R45 May cause Cancer

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)

Section 16 - Other Information

- 16.1 National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.
- 16.2 Health: 2
- 16.3 Flammability: 0
- 16.4 Reactivity: 0
- 16.5 Revision Indicator: 2.0
- 16.6 Disclaimer: The information contained herein is accurate to the best of our knowledge. My Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.

