



**SIGMA-ALDRICH**

**Material Safety Data Sheet**

Date Printed: 12/02/2005  
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Version 1.50

**Section 1 - Product and Company Information**

<b>Product Name</b>	Trypan Blue solution, 0.4 %		
<b>Product Number</b>	T8154		
<b>Brand</b>	Sigma-Aldrich		
<b>Company</b>	Sigma-Aldrich		
<b>Street Address</b>	3050 Spruce Street		
<b>City, State, Zip, Country</b>	SAINT LOUIS, MO 63103 US		
<b>Technical Phone:</b>	314 771 5765		
<b>Fax:</b>	800 325 5052	<b>Emergency Phone:</b>	414 273 3850 Ext. 5996

**Section 2 - Composition/Information on Ingredient**

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
TRYPAN BLUE SOLUTION	None	Yes		
<b>Ingredient Name</b>	<b>CAS #</b>	<b>Percent</b>	<b>SARA 313</b>	
WATER	7732-18-5	98.730 %	No	
SODIUM CHLORIDE	7647-14-5	0.810 %	No	
TRYPAN BLUE	72-57-1	0.400 %	Yes	
POTASSIUM PHOSPHATE, DIBASIC	7758-11-4	0.060 %	No	

**Formula**  
**Synonyms**

**Section 3 - Hazards Identification**

**Emergency Overview**  
Toxic.  
May cause cancer.  
Calif. Prop. 65 carcinogen.

**HMIS Rating**  
Health: 0\*      Flammability: 0      Reactivity: 0

**NFPA Rating**  
Health: 0      Flammability: 0      Reactivity: 0

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

**Section 4 - First Aid Measures**

**Oral Exposure**  
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**Inhalation Exposure**  
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

**Dermal Exposure**  
In case of contact, immediately wash skin with soap and copious amounts of water.

**Eye Exposure**  
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Section 5 - Fire Fighting Measures**

**Autoignition Temp:** N/A

**Extinguishing Media**  
**Suitable**  
Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

**Firefighting**  
**Protective Equipment**  
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
**Specific Hazard(s)**  
Emits toxic fumes under fire conditions.

**Section 6 - Accidental Release Measures**

**Procedure to be Followed In Case of Leak or Spill**  
Evacuate area.

**Procedure(s) of Personal Precaution(s)**  
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard them after use.

**Methods for Cleaning Up**  
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

**Section 7 - Handling and Storage**

**Handling**  
**User Exposure**  
Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

**Storage**  
**Suitable**  
Keep tightly closed.

**Section 8 - Exposure Controls / PPE**

**Engineering Controls**  
Use only in a chemical fume hood. Safety shower and eye bath.

**Personal Protective Equipment**  
**Respiratory**  
Government approved respirator in nonventilated areas and/or for exposure above the TLV or PEL.  
**Hand**  
Compatible chemical-resistant gloves.  
**Eye**  
Chemical safety goggles.

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**General Hygiene Measures**

Wash contaminated clothing before reuse. Wash thoroughly after handling.

**Section 9 - Physical/Chemical Properties****Appearance**

Physical State  
Liquid

Molecular Weight: N/A

pH N/A  
BP/BP Range N/A  
MP/MP Range N/A  
Freezing Point N/A  
Vapor Pressure N/A  
Vapor Density N/A  
Saturated Vapor Conc. N/A  
SG/Density N/A  
Bulk Density N/A  
Odor Threshold N/A  
Volatile% N/A  
VOC Content N/A  
Water Content N/A  
Solvent Content N/A  
Evaporation Rate N/A  
Viscosity N/A  
Partition Coefficient N/A  
Decomposition Temp. N/A  
Flash Point °F N/A  
Flash Point °C N/A  
Explosion Limits N/A

Flammability N/A  
Autoignition Temp N/A  
Solubility N/A

N/A = not available

**Section 10 - Stability and Reactivity****Stability**

Stable  
Stable.

**Materials to Avoid**  
Strong oxidizing agents.

**Hazardous Decomposition Products****Hazardous Decomposition Products**

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides.

**Hazardous Polymerization**  
**Hazardous Polymerization**  
Will not occur.

**Section 11 - Toxicological Information****Route of Exposure****Skin Contact**

May cause skin irritation.

**Skin Absorption**

May be harmful if absorbed through the skin.

**Eye Contact**

May cause eye irritation.

**Inhalation**

Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

**Ingestion**

May be harmful if swallowed.

RTECS Number: N/A

**Chronic Exposure - Carcinogen**

Result: This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

**Chronic Exposure - Teratogen**

Result: Laboratory experiments have shown teratogenic effects.

**Section 12 - Ecological Information**

No data available.

**Section 13 - Disposal Considerations****Appropriate Method of Disposal of Substance or Preparation**

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

**Section 14 - Transport Information****DOT**

**Proper Shipping Name:** None

**Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.

**IATA**

**Non-Hazardous for Air Transport:** Non-hazardous for air transport.

**Section 15 - Regulatory Information****EU Additional Classification**

**Symbol of Danger:** T

**Indication of Danger**

Toxic.

**Risk Statements** R: 45

May cause cancer.

**Safety Statements** S: 53 45

Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**US Classification and Label Text****Indication of Danger**

Toxic.

**Risk Statements**

May cause cancer.

**Safety Statements**

Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**US Statements**

Calif. Prop. 65 carcinogen.

**United States Regulatory Information****SARA Listed:** Yes**Notes:** This product is subject to SARA section 313 reporting requirements.**United States - State Regulatory Information****California Prop - 65**

This product is or contains chemical(s) known to the state of California to cause cancer.

**Canada Regulatory Information****WHMIS Classification**

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

DSL: No

NDSL: No

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**Section 16 - Other Information**

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**Disclaimer**

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

**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. Sigma-Aldrich Inc., 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. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.