

# Safety Data Sheet

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Identification of the substance or mixture

**Product code** 15250061  
**Product name** TRYPAN BLUE STAIN

### Company/undertaking identification

Life Technologies Corporation  
 5781 Van Allen Way  
 PO Box 6482  
 Carlsbad, CA 92008  
 +1 760 603 7200

Life Technologies  
 5250 Mainway Drive  
 Burlington, ONT  
 CANADA L7L 6A4  
 800/263-6236

**24 hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident. Spill, Leak, Fire, Exposure, or Accident. Call CHEMTREC** Within the USA + Canada: 1-800-424-9300 and +1 703-527-3887  
 Outside the USA + Canada: +1 703-741-5970

### Country specific Emergency Number (if available):

CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

**For research use only. Not intended for human or animal diagnostic or therapeutic uses.**

## SECTION 2: Hazards identification

### GHS - Classification

#### Signal Word

DANGER

#### Hazard pictograms



#### Health hazards

|                       |             |
|-----------------------|-------------|
| Carcinogenicity       | Category 1B |
| Reproductive Toxicity | Category 2  |

#### Physical hazards

Not Hazardous

**Environmental hazards**

Not Hazardous

**Hazard Statements**

H350 - May cause cancer

H361 - Suspected of damaging fertility or the unborn child

**Precautionary Statements****Prevention**

P201 - Obtain special instructions before use

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P202 - Do not handle until all safety precautions have been read and understood

**Response**

P308 + P313 - IF exposed or concerned: Get medical advice/attention

**Storage**

Not Applicable

**Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

**Other hazards**

Not Applicable

**HMIS**

|              |                    |
|--------------|--------------------|
| Health       | 4 * Chronic Hazard |
| Flammability | 0                  |
| Reactivity   | 0                  |

**SECTION 3: Composition/information on ingredients**

| Component                        | CAS-No  | EINECS-No | Weight % |
|----------------------------------|---------|-----------|----------|
| trypan blue<br>72-57-1 ( 0.1-1 ) | 72-57-1 | 200-786-7 | 0.1-1    |

We recommend handling all chemicals with caution.

## SECTION 4: First aid measures

### Description of first aid measures

|                           |   |
|---------------------------|---|
| <b>Skin contact</b>       | Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Immediate medical attention is required.  |
| <b>Eye contact</b>        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.   |
| <b>Ingestion</b>          | Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. If swallowed, rinse mouth with water (only if the person is conscious). Risk of serious damage to the lungs (by aspiration). Get medical attention if symptoms occur. |
| <b>Inhalation</b>         | Remove to fresh air. If not breathing, give artificial respiration. If symptoms persist, call a physician.  |
| <b>Notes to Physician</b> | Treat symptomatically.  |

### Most important symptoms and effects, both acute and delayed

H350 - May cause cancer H361 - Suspected of damaging fertility or the unborn child

### Indication of any immediate medical attention and special treatment needed

Wear protective gloves/protective clothing and eye/face protection. IF exposed or concerned: Get medical advice/attention.

## SECTION 5: Firefighting measures

### Extinguishing media

|                                       |   |
|---------------------------------------|---|
| <b>Suitable extinguishing media</b>   | Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. |
| <b>Unsuitable extinguishing media</b> | No information available.   |

**Special hazards arising from the substance or mixture** Not known.

**Advice for fire-fighters** Wear self-contained breathing apparatus and protective suit.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment. See Section 8 for more detail.

### Environmental precautions

Avoid discharge into drains and waterways whenever possible.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

### Reference to other sections

See section 8 for more information.

## SECTION 7: Handling and storage

### Precautions for safe handling

Always wear recommended Personal Protective Equipment. Wash hands before breaks and immediately after handling the product. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or mists. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. See Section 8 for more detail.

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store in accordance with local regulations.

### Specific end use(s)

For research use only.

## SECTION 8: Exposure controls/personal protection

### Control parameters

| Chemical Name | OSHA PEL | OSHA PEL (Ceiling) | ACGIH OEL (TWA) | ACGIH OEL (STEL) |
|---------------|----------|--------------------|-----------------|------------------|
| trypan blue   | None     | None               | None            | None             |

**Engineering measures** Ensure adequate ventilation, especially in confined areas

### Exposure controls

#### Personal Protective Equipment

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

**Hand protection** Glove material: Nitrile rubber with thickness (mm) :5 Break through time (hours) :>1  
Recommended glove type has not been tested for use with product Information is based on professional Knowledge

**Eye protection** Tight sealing safety goggles

**Skin and Body Protection** Wear laboratory coat for body protection

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice

#### Environmental exposure controls

Avoid discharge into drains and waterways whenever possible.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

|   |                                |                                |
|---|--------------------------------|--------------------------------|
| <b>Appearance</b>                                 | liquid                         |                                |
| <b>Odor</b>                                       | Mixture has not been tested    |                                |
| <b>Odor Threshold</b>                             | Mixture has not been tested    |                                |
| <b>pH</b>   | Mixture has not been tested    |                                |
| <b>Melting point / melting range</b>              | °C Mixture has not been tested | °F Mixture has not been tested |
| <b>Boiling point / boiling range</b>              | °C Mixture has not been tested | °F Mixture has not been tested |
| <b>Flash point</b>                                | °C Mixture has not been tested | °F Mixture has not been tested |
| <b>Autoignition Temperature</b>                   | °C Mixture has not been tested | °F Mixture has not been tested |
| <b>Decomposition temperature</b>                  | °C Mixture has not been tested | °F Mixture has not been tested |
| <b>Evaporation rate</b>                           | No data available              |                                |
| <b>Flammability (solid, gas)</b>                  | Not Applicable                 |                                |
| <b>Upper explosion limit</b>                      | Mixture has not been tested    |                                |
| <b>Lower explosion limit</b>                      | Mixture has not been tested    |                                |
| <b>Vapor Pressure</b>                             | Mixture has not been tested    |                                |
| <b>Relative density</b>                           | Mixture has not been tested    |                                |
| <b>Specific gravity</b>                           | No data available              |                                |
| <b>Solubility</b>                                 | Mixture has not been tested    |                                |
| <b>Partition coefficient:<br/>n-octanol/water</b> | No data available              |                                |
| <b>Viscosity</b>                                  | Mixture has not been tested    |                                |
| <b>Explosive properties</b>                       | Mixture has not been tested    |                                |
| <b>Oxidizing properties</b>                       | Mixture has not been tested    |                                |
| <b>Other information</b>                          | No data available              |                                |

## SECTION 10: Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | None known.   |
| <b>Chemical stability</b>                 | Stable under normal conditions.                             |
| <b>Possibility of hazardous reactions</b> | Hazardous reaction has not been reported.                   |
| <b>Conditions to avoid</b>                | None known.   |
| <b>Incompatible materials</b>             | No dangerous reaction known under conditions of normal use. |
| <b>Hazardous decomposition products</b>   | No known hazardous decomposition products.                  |

## SECTION 11: Toxicological information

### Information on toxicological effects

| Chemical Name | LD50 (oral, rat/mouse) | LD50 (dermal, rat/rabbit) | LC50 (inhalation, rat/mouse) |
|---------------|------------------------|---------------------------|------------------------------|
| trypan blue   | = 6200 mg/kg (Rat)     | No data available         | No data available            |

### Principal Routes of Exposure

|                                 |   |
|---------------------------------|---|
| <b>Irritation</b>               | Conclusive but not sufficient for classification  |
| <b>Corrosivity</b>              | Conclusive but not sufficient for classification  |
| <b>Sensitization</b>            | Conclusive but not sufficient for classification  |
| <b>STOT - Single Exposure</b>   | Conclusive but not sufficient for classification  |
| <b>STOT - Repeated Exposure</b> | Conclusive but not sufficient for classification  |
| <b>Carcinogenicity</b>          | Contains a known or suspected carcinogen  |
| <b>Mutagenicity</b>             | Conclusive but not sufficient for classification  |
| <b>Reproductive toxicity</b>    | May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility |
| <b>Aspiration hazard</b>        | Conclusive but not sufficient for classification  |

## SECTION 12: Ecological information

### Toxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name | Freshwater Algae Data | Water Flea Data   | Freshwater Fish Species Data | Microtox Data     | log Pow           |
|---------------|-----------------------|-------------------|------------------------------|-------------------|-------------------|
| trypan blue   | No data available     | No data available | No data available            | No data available | No data available |

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

SECTION 14: Transport information

**IATA / ADR / DOT-US / IMDG**

Not regulated in the meaning of transport regulations.

**UN number** Not Applicable  
**UN proper shipping name** Not Applicable  
**Transport hazard class(es)** Not Applicable  
**Packing group** Not Applicable  
**Environmental hazards** Not Applicable  
**Special precautions for user** Not Applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not Applicable.

SECTION 15: Regulatory information

| Component                        | US TSCA |
|----------------------------------|---------|
| trypan blue<br>72-57-1 ( 0.1-1 ) | Listed  |

**US Federal Regulations**

**SARA 313**

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repack, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:.

| <u>Chemical Name</u> | <u>CAS-No</u> | <u>Weight %</u> | <u>SARA 313 - Threshold Values</u> |
|----------------------|---------------|-----------------|------------------------------------|
| trypan blue          | 72-57-1       | 0.1-1           | 0.1                                |

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contains HAPs.

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

| <u>Chemical Name</u> | <u>CAS-No</u> | <u>Weight %</u> | <u>Category</u> |
|----------------------|---------------|-----------------|-----------------|
| trypan blue          | 72-57-1       | 0.1-1           | Carcinogen      |

**WHMIS Hazard Class**

D2A - Very toxic materials



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

## SECTION 16: Other information

**Reason for revision** SDS sections updated.  
**Revision number** 6  
**Revision date** 17-May-2017

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

### **References**

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet**