

MATERIAL SAFETY DATA SHEET

Trypan Blue Solution, 0.4%

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. PRODUCT DETAILS

Trade Name: Trypan Blue Solution, 0.4%

Catalog Number: CC007

1.2. COMPANY DETAILS

Supplier: Canvax Reagents S.L., Luis de Mercado St. 19, Boecillo Technological Park, Valladolid (Spain)

1.3. EMERGENCY TELEPHONE NUMBER

European emergency number: 112

Spain:

CHEMTREC 900-868538

CHEMTREC (Barcelona) +(34)-931768545

2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical Hazards: not classified

Health Hazards:

Carcinogenicity	Category 1
Reproductive toxicity	Category 2

Environmental Hazards: not classified.

Additional information: Not Applicable

2.2. LABEL ELEMENTS

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



Signal Word

Danger

Hazard Statements

H350 - May cause cancer

H361 - Suspected of damaging fertility or the unborn child



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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

Storage

Not Applicable

Disposal

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

Response

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

Other hazards

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

3. CHEMICAL CHARACTERIZATION

Mixtures

Chemical Name	CAS-no.	EC-no.	Weight %	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	72-57-1	200-786-7	0.1-1	-	Carc. 1 - H350 Repro 2 - H361

Chemical Name	Specific concentration limit (SCL)	M-Factor	Acute Toxicity Estimate
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	-	-	-

4. FIRST AID MEASURES

4.1. DESCRIPTION OF DIRTS AID MEASURES

Inhalation: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a doctor.

Ingestion: 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.



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Skin contact: 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.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Notes to Physician: Treat symptomatically.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

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

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.

5. FIRE FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical.
Unsuitable extinguishing media	No information available.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Not known

5.3. ADVICE FOR FIRE FIGHTERS

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

6.1. 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 information

6.2. ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains and waterways whenever possible.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Soak up with inert absorbent material.

6.4. REFERENCE TO OTHER SECTIONS

See section 8 for more information



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7. HANDLING AND STORAGE

7.1. 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 vapours or mists. If during normal use the material presents a respiratory hazard, use adequate ventilation and/or wear appropriate respirator. See section 8 for more information.

7.2. CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES

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

7.3. SPECIFIC END USE(S)

For research use only.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU Skin Notation	Austria	Belgium (TWA)
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	None	None	None	None	None

Chemical Name	Czech Republic	Denmark (TWA)	Finland OEL (TWA)	France OEL (VME)	Germany OEL (TWA)
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	None	None	None	None	None

Chemical Name	Ireland (TWA)	Italy OEL (TWA)	Lithuania OEL (TWA)	Netherlands OEL (MAC)	Norway
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	None	None	None	None	None



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Chemical Name	Poland	Portugal	Spain OEL (TWA)	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Switzerland	United Kingdom
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3-dimethyl[1,1-biphenyl]-4,4-diyl)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	None	None	None	None	None	None

Engineering Measures: Ensure adequate ventilation, especially in confined areas.

8.2. EXPOSURE CONTROLS

Special protective equipment

Eye/face protection: Tight sealing safety goggles.

Hand protection: Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

Other skin and body protection: Wear laboratory coat for body protection.

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

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls: Avoid discharge into drains and waterways whenever possible.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid

Colour No data

Odour No data

Molecular Weight No data

Melting point / melting range °C No data **°F** No data

Boiling point / boiling range °C No data **°F** No data

Flammability (solid, gas) No data

Lower explosion limit No data

Upper explosion limit No data

Flash point °C No data **°F** No data

Autoignition Temperature °C No data **°F** No data

Decomposition temperature °C No data **°F** No data

pH No data

Evaporation rate No data

Viscosity No data

Solubility No data

Partition coefficient: n-octanol/water No data

Vapour Pressure No data

Specific gravity No data

Relative density No data

Vapour density No data

Explosive properties No data



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Oxidising properties No data
Particle characteristics No data

9.2. OTHER INFORMATION

Information with regards to physical hazard classes
No information available

Other safety characteristics
No information available

10. STABILITY AND REACTIVITY

10.1. REACTIVITY

Not known

10.2. CHEMICAL STABILITY

Stable under normal conditions

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Hazardous reaction has not been reported.

10.4. CONDITIONS TO AVOID

No information available.

10.5. INCOMPATIBLE MATERIALS

No dangerous reaction known under conditions of normal use.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

No data available.

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	= 6200 mg/kg (Rat)	Not data available	Not data available

Principal Routes of Exposure

Skin corrosion/irritation: Data are conclusive but insufficient for classification

Serious eye damage/irritation: Data are conclusive but insufficient for classification

Respiratory or skin sensitisation: Data are conclusive but insufficient for classification

Specific target organ toxicity (STOT) – single exposure: Data are conclusive but insufficient for classification



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Specific target organ toxicity (STOT) – repeated exposure: Data are conclusive but insufficient for classification

Carcinogenicity: Contains a known or suspected carcinogen

Germ cell mutagenicity: Data are conclusive but insufficient for classification

Reproductive Toxicity: May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility

Aspiration Hazard: Data are conclusive but insufficient for classification

Information on other hazards

Endocrine disrupting properties: No information available

Other information: No information available

12. ECOLOGICAL INFORMATION

12.1. TOXICITY

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

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	Not data available	Not data available	Not data available	Not data available	Not data available

12.2. PERSISTENCE AND DEGRADABILITY

Not data available

12.3. BIOACCUMULATION POTENTIAL

No data available

12.4. MOBILITY IN THE SOIL

No data available.

12.5. PBT AND vPvBm ASSESSMENT RESULTS

This product does not contain substances classified as PBT or vPvB.

12.6. OTHER ADVERSE EFFECTS

Not determined.



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13. DISPOSAL CONSIDERATIONS

13.1. 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 techniques. 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.

14. TRANSPORT INFORMATION

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

14.1. UN-NUMBER

Not Applicable

14.2. UN PROPER SHIPPING NAME

Not Applicable

14.3. TRANSPORT HAZARD CLASS(ES)

Not Applicable

14.4. PACKAGING GROUP

Not Applicable

14.5. ENVIRONMENTAL HAZARDS

Not Applicable

14.6. SPECIAL PRECAUTIONS FOR USER

Not Applicable

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II MARPOL73/78 AND THE IBC CODE

Not Applicable

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

None

15.2. Substances of Very High Concern

None

15.3. Substance subject to authorisation per REACH Annex XIV

None

15.4. Restricted substances under EC 1907/2006, Annex XVII

None



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Chemical Name	Weight %	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	0.1-1	Use restricted. See item 9[d].

15.5. Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)

None

Chemical Name	Weight %	EU - Export and Import Restrictions (649/2012) - Chemicals Subject to Export Notification Procedure	EU - Export and Import Restrictions (649/2012) - Chemicals and Articles Subject to Export Ban	EU - Export and Import Restrictions (649/2012) - Chemicals Subject to the PIC Procedure under the Rotterdam Convention	EU - Export and Import Restrictions (649/2012) - Chemicals Qualifying for PIC Notification
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	0.1-1	Use restricted. See item 9[d].	-	-	-

15.6. Regulation (EU) No 2019/1021 (Stockholm Convention – persistent organic pollutants)

None

15.7. EU - Substances Depleting the Ozone layer (1005/2009)

None

15.8. German Water hazard classes (Wassergefährdungsklassen)

Chemical Name	Weight %	Water hazard class (WGK)
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	0.1-1	hazard class 3 - highly hazardous to water

15.9. Other International Inventories

Chemical Name	EINECS (European Union)	ELINCS (European List of Notified Chemical Substances)	ENCS (Japan)	PICCS (Philippines)
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	Listed	-	-	Listed



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Chemical Name	AICS (Australia)	South Korea (KECL)	Canada (DSL)	NDSL
2,7-Naphthalenedisulfonic acid, 3,3-[(3,3 dimethyl[1,1-biphenyl]-4,4-diy l)bis(azo)]bis[5-amino-4-hydroxy-, tetrasodium salt	Listed	Listed	Listed	-

15.10. CHEMICAL SAFETY ASSESSMENT

No Chemical safety assessment has been carried out.

16. OTHER INFORMATION

Reason for revision Update according to Commission Regulation EU No. 2020/878

Revision date 10-Apr-2023

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>

Abbreviations and acronyms

- TWA** - Time-Weighted Average
- OELs** - Occupational Exposure Limits
- STEL** - Short Term Exposure Limit
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- KECL** - Korean Existing and Evaluated Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances
- NZIoC** - New Zealand Inventory of Chemicals
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- CEPA** - Canadian Environmental Protection Act
- EPA** - Environmental Protection Agency
- OSHA** - Occupational Safety and Health Administration of the US Department of Labour
- IATA** - International Air Transport Association
- DOT** - Department of Transportation
- IMDG** - International Maritime Dangerous Goods
- ACGIH** - American Conference of Governmental Industrial Hygienists
- NIOSH** - National Institute for Occupational Safety and Health
- AIHA** - American Industrial Hygiene Association
- HMS** - Department of Defense Hazardous Materials Information System
- NTP** - National Toxicology Program
- IARC** - International Agency for Research on Cancer

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consequences of its use. The Users should make independent decisions regarding the completeness of information based on all sources available.

