



Material Safety Data Sheet

(Prepared according to 1907/2006/EC, Article 31)

Revision Date: 17-April-2016

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

1.1 Product Details:

Trade Name: **Tris-Buffered Saline (TBS) pH7.6**

Catalog Number	Size
BR0040	4 L = 8 T
BR0041	8 L = 16 T
BR0042	25 L = 50 T
BR0093	50 L = 100 T

CANVAX BIOTECH, S.L.



: C/ Astrónoma Cecilia Payne. Edif. Orión. 14014 Córdoba, Spain.



: +34 957 325 454



: +34 957 325 335



: info@canvaxbiotech.com

Toxicological Information Service:

European emergency number: 112

Spain:

CHEMTREC 900-868538

CHEMTREC (Barcelona) +(34)-931768545

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2. CHEMICAL CHARACTERISATION

Substance	CAS-no.	EC-no.	Weight -&	Classification according to constitution (EG) no 1272/2008 (CLP)
Sodium Chloride	7647-14-5	231-598-3	50-55%	Not classified
Tris	77-86-1	201-064-4	5-20%	Not classified
Tris-HCl	1185-53-1	214-684-5	30-40%	Skin Irrit 2, H315

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				Eye Irrit 2, H319 STOT SE 3, H335
Potassium Chloride	7447-40-7	321-211-8	0-1%	Not classified

3. HAZARDS IDENTIFICATION

3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

Classified: Skin Irritation (category 2), H315
Eye Irritation (category 2), H319
Specific Target Organ Toxicity – single exposure (category 3), H335

3.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)



Signal Word: Warning

Hazard statement(s):

H315 Cause skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary statement(s):

P302+352 IF ON SKIN: Wash with plenty of water
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes; remove contact lenses if present and easy-to-do; continue rinsing
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

Complementary hazard information

No further information

3.3 Other hazards

No data available

4. FIRST AID MEASURES

4.1 Description of first aid measures

If swallowed: Rinse mouth with water; never give anything by mouth to an unconscious person; get medical attention

If inhaled: Move person to fresh air; if person is not breathing, give artificial respiration; get medical attention.

In case of skin contact: Wash off with soap and plenty of water; remove contaminated clothes; get medical attention.

In case of eye contact: Rinse immediately with plenty of water for at least 15 min; remove contact lenses if present and easy-to-do; get medical attention.

General advice: Get medical attention; show this data sheet to the doctor in attendance



4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: water spray, fog, foam or dry chemical powder

5.2 Special hazards arising from the substance or mixture

Sodium oxides, carbon oxides, hydrogen chloride gas

5.3 Advice for fire fighters

Wear self-contained breathing apparatus for firefighting, if necessary

5.4 Further information

Product itself is not flammable

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation; avoid breathing dust; wear lab coat, safety goggles, suitable protective gloves and boots; wash hands before and after use

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and material for containment and cleaning up

Sweep/shovel up spilled material and place it into a suitable waste disposal container; keep container tightly closed for disposal; finish cleaning by spreading water over the contaminated area and ventilate the room

6.4 Reference to other sections

For disposal: see section 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid dust formation; assure adequate ventilation where dust is formed; avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities

Store at room temperature in a well-ventilated area; use original container.

7.3 Specific end use(s)

No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

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Use general hygiene procedures; use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits; if user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

Personal protective equipment

Eye/face protection Wear safety goggles (EN 166)

Skin protection Use proper lab gloves; gloves must be inspected prior to use

Body Protection Wear lab coat or other impervious clothes; type of protection equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Respiratory protection If necessary, use dust respirator tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU)

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance white tablets

Odour no data available

Odour threshold no data available

pH 7.6 at 25°C

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) no data available

Upper/lower flammability or explosive limits no data available

Vapour pressure no data available

Vapour density no data available

Relative density no data available

Water solubility completely soluble

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

9.2 Other information

No further information

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available



10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Oxidizing agents

10.6 Hazardous decomposition products

In case of fire: sodium oxides, carbon oxides, hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/ eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation May be harmful if inhaled; causes respiratory tract irritation

Ingestion May be harmful if swallowed

Skin Causes skin irritation

Eyes Causes serious eye irritation

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment



No data available

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. Offer surplus and non-recyclable solutions to a licensed disposal company.

No mixing with other waste.

Contaminated packaging: dispose of as unused product

14. TRANSPORT INFORMATION

14.1 UN-number

ADR-RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR-RID Not dangerous good

IMDG: Not dangerous good

IATA: Not dangerous good

14.3 Transport hazard class(es)

ADR-RID: - IMDG: - IATA:-

14.4 Packaging group

ADR-RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR-RID: no

IMDG, water pollutant: no

IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

15. OTHER INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

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

No data available

15.2 Chemical safety assessment

No data available

This information is based on the current state of knowledge.

Precaution and disclaimer: For laboratory use only; not for drug, household, or any other use.

Text of H-phrases in section 3

Hazard statement(s)

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation



Skin Irrit 2 Skin Irritation (category 2)

Eye Irrit 2 Eye Irritation (category 2)

STOT SE 3 Specific Target Organ Toxicity – single exposure (category 3)

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