



Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Product Name: Tris Buffered Saline, 20X

CAS: 7732-18-5, 77-86-1, 7647-14-5

Synonyms:

Chemical Formula:

Contact Information:

UFC Biotechnology, Inc.

435 Creekside Drive, Suite 5

Amherst, New York 14228

Office Number: 716-777-3776

INFOTRAC (24HR Emergency Telephone), call:
1-800-535-5053

International INFOTRAC, call: 1- 352-323-3500

For non-emergency assistance, call: 1-716-777-3776

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

The product is not classified according to the Globally Harmonized System (GHS)

2.2 GHS Label elements, including precautionary statements

The product does not have to be labeled due to the calculation procedure of international guidelines

Hazard statement(s)

Precautionary statement(s)

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified

Section 3: Composition, Information on Ingredients

3.1 Substances

Synonyms: Water, Tris, Sodium chloride

Formula : H_2O , $C_4H_{11}NO_3$, $NaCl$

Molecular weight:

CAS-No. : 7732-18-5, 77-86-1, 7647-14-5

EC-No. :

Components Name	CAS No	Classification	% by Weight
Sodium chloride	7647-14-5		10-20
Tris base	77-86-1		1-5

Section 4: First Aid Measures

4.1 Description of first-aid measures

General advice No special measures are required.

If inhaled Supply fresh air. Get medical attention if symptoms occur.

In case of skin contact Wash off immediately with plenty of water.

In case of eye contact After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed Clean mouth with water and drink afterward plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

No information available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Firefighting Measures

- 5.1 Extinguishing media**
Suitable extinguishing media Water Foam Carbon dioxide (CO₂) Dry powder
Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.
- 5.2 Special hazards arising from the substance or mixture**
 None.
- 5.3 Advice for firefighters**
 None.
- 5.4 Further information**
 None.

Section 6: Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
 Not required.
- 6.2 Environmental precautions**
 Dilute with plenty of water.
- 6.3 Methods and materials for containment and cleaning up**
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment
 For disposal see section 13.

Section 7: Handling and Storage

- 7.1 Precautions for safe handling**
Advice on protection against fire and explosion No special measures required.
Hygiene measures Immediately change contaminated clothing. Wash hands and face after working with substance. For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**
Storage conditions No special requirements
Storage class No special requirements.
- 7.3 Specific end use(s)**
 Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8: Exposure Controls/Personal Protection

- 8.1 Control parameters**
 This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.
- 8.2 Exposure controls**
Appropriate engineering controls Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substances.
- Personal protective equipment**
Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles
Skin protection Handle with impervious gloves.
 This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).
 Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: KCL 741 Dermatrill® L
 Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested: KCL 741 Dermatrill® L
Body Protection Flame retardant antistatic protective clothing.
Respiratory protection Not required.
Control of environmental exposure Do not let product enter drains.

Section 9: Physical and Chemical Properties

Physical State	Liquid
Appearance	Colorless
Odor	Odorless

Odor Threshold	No information available
pH	No data available
Melting Point/Range	~0 °C / 32 °F
Boiling Point/Range	~100 °C / 212 °F
Flash Point	Not applicable
Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure at 20°C	No data available
Vapor Density	Not applicable
Specific Gravity	~1.1
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available

Section 10: Stability and Reactivity Data

Reactive Hazard	No
Stability	Stable.
Conditions to Avoid	No further information.
Incompatible Materials	No further information.
Hazardous Decomposition Products	No dangerous decomposition.
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

Section 11: Toxicological Information

11.1	Information on toxicological effects
	Acute toxicity
	Skin corrosion/irritation No irritating effect
	Serious eye damage/eye irritation No irritating effect
	Respiratory or skin sensitization No sensitization effect
	Germ cell mutagenicity No data available
	Carcinogenicity
	IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
	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
11.2	Additional Information
	The toxicological properties have not been thoroughly investigated.

Section 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

	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.6	Endocrine disrupting properties
	No data available
12.7	Other adverse effects
	No data available

Section 13: Disposal Considerations

13.1	Waste treatment methods
	Product
	Smaller quantities can be disposed of with household waste.
	Disposal must be made according to local, regional, and national hazardous waste regulations.
	Water is recommended cleansing agent.

Section 14: Transport Information

DOT (US)	Not a dangerous goods during transportation
IMDG	Not regulated
IATA	Not regulated

Section 15: Other Regulatory Information

US Federal Regulations
Us Toxic Substances Control Act (TSCA): Active
SARA 302: No chemicals were found.
SARA 313: No chemicals were found.
SARA 311/312 Hazards: No chemicals were found

Section 16: Other Information

References: Not available.
Other Special Considerations: Not available.
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