

TBS: 5 L of 20X: sc-362305



MATERIAL SAFETY DATA SHEET

The Power to Question

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: TBS: 5 L of 20X
Catalog number: sc-362305
Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800
Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. HAZARDS IDENTIFICATION

EU Hazard Classification

Not classified as hazardous.

Routes of Entry

- Eye contact - Skin contact

Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs

- Eye - Skin

Health Effects - Eyes

Contact may cause mild irritation.

Health Effects - Skin

This product may cause mild irritation to the skin.

Health Effects - Ingestion

This product may cause irritation to mouth, throat and digestive system.

Health Effects - Inhalation

No adverse effects are expected during normal conditions of use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>CAS-No.</i>	<i>EC-No.</i>	<i>R Phrases.</i>	<i>Classification</i>
Water			
7732-18-5	231-791-2	R-None	None
Inorganic Salt			
-	-	R-None	None
Tris			
77-86-1	-	R-None	None
Tris Hydrochloride			
1185-53-1	214-684-5	R-None	None

4. FIRST AID MEASURES

Eyes: Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin: If skin irritation develops, or other symptoms occur, wash affected area with plenty of water. Seek medical attention if symptoms persist.

Ingestion: Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing. Obtain medical attention immediately.

Inhalation: If there is difficulty in breathing, give oxygen. Seek medical attention if symptoms persist.

Advice to Physicians: Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use water spray, foam, dry chemical or carbon dioxide.

Unusual Fire and Explosion Hazards

This product may give rise to hazardous fumes in a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Absorb with suitable material. Sweep up and place in a compatible container for disposal. Spill area can be washed with water.

7. HANDLING AND STORAGE

Wear appropriate protective equipment when handling. Wash thoroughly after handling. Keep container tightly closed when not in use. Storage area should be: - cool - dry - well ventilated. Storage temperature should be maintained between 4 and 8 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Water

None assigned.

Polymer Salt

None assigned.

Inorganic Salt

None assigned.

Tris

None assigned.

Tris Hydrochloride

None assigned.

Engineering Control Measures

No specific measures necessary.

Respiratory Protection

Respiratory protection not normally required.

Hand Protection

Chemical resistant gloves.

Eye Protection

Chemical goggles or safety glasses with side shields.

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid	Odor	Odorless
pH	7.6	Boiling Range/Point	100 °C / 212 °F
Freezing Range/Point	0 °C / 32 °F	Flash Point (PMCC) (°C/F)	Not applicable
Explosion Limits (%)	Not applicable	Vapor Pressure	No data available
Density	1.0 g/ml	Solubility in Water	soluble
Vapor Density (Air = 1)	No data available	Viscosity (cSt)	No data available
VOC	0 g/L		

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Contact with incompatible materials - heat

Materials to Avoid

Strong oxidizing agents

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Oxides of carbon - oxides of nitrogen - hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Inorganic Salt: Oral LD50 (rat) 3000 mg/kg

Chronic Toxicity/Carcinogenicity

This product is not expected to cause long-term adverse health effects.

Genotoxicity

This product is not expected to cause mutagenic effects.

Reproductive/Developmental Toxicity

This product is not expected to cause reproductive or developmental health effects.

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data: Not Regulated

UN Proper Shipping Name: Not Regulated

UN Class: None.

UN Number: None.

UN Packaging Group: None.

Classification for AIR Transportation (IATA)

Consult current IATA Regulations prior to shipping by air.

15. REGULATORY INFORMATION

EU Label Information

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments(2001/60/EC and 2006/8/EC)

EU Hazard Symbol and Indication of Danger

According to EC Commission Directive 67/548/EEC this product is not classified.

R phrases: None.

S phrases: None.

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS

TSCA Listing

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.

EINECS Listing

All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.

DSL/NDSL (Canadian) Listing

This product contains ingredients which are listed on the Domestic Substance List (DSL) or the Non- Domestic Substance List (NDSL) or are exempt from listing.

MA Right To Know Law

This product contains no chemicals listed on the Massachusetts Right To Know Substance List.

PA Right To Know Law

This product contains no chemicals listed on the Pennsylvania Hazardous Substance List.

NJ Right To Know Law

This product contains no chemicals listed on the New Jersey Workplace Hazardous Substance List.

California Proposition 65

This product does not contain materials, which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 302 (EHS)

This product does not contain any chemicals subject to SARA Title III Section 302.

SARA Title III Sect. 304

This product does not contain any chemicals subject to SARA Title III Section 304.

SARA Title III Sect. 311/312 Categorization

Immediate (Acute) Health Hazard

SARA Title III Sect. 313

This product does not contain a chemical that is listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

12/5/2011