

Material Safety Data Sheet

hazard information

Hazard information is provided for compliance with both the UK Chemicals (Hazard Information and Packaging) (CHIP) Regulations and the US Hazard Communication Standard (HCS).

Identification of the Substance/Preparation and Company:

Product name	Product code	EEC number
20X TBS (Tris Buffered Saline)	GR147-1	None

Supplier

Hoefler, Inc., 953 Indiana Street, San Francisco, CA 94107
Phone: 800-227-4750

Emergency Contact

Chemtrec: 800-424-9300
Outside USA and Canada: 703-527-3887

Composition/Hazardous Components:

Hazard	CAS No.	%WT	TLV	CHIP R & S Phrases
Tris	77-86-1	~6%	---	<i>R:3638</i> Irritating to eyes and skin <i>S:26</i> In case of contact with eyes, rinse immediately with plenty of water and seek medical advise

Hazards Identification

CHIP: Irritant
HCS: Irritant



First-aid Measures

EYES: Flush with water for 15 minutes. Seek medical advice if irritation persists.

SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.

INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.

INGESTION: Drink water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person.

Fire-fighting Information

FLASH POINT: No data available

Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. *For small fires only:* use carbon dioxide, dry powder or foam. May emit toxic fumes under fire conditions.

Accidental Release Measures

Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation.

Handling and Storage

Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. Avoid contact of material with skin or eyes. Use adequate ventilation. Store ambient away from oxidizing agents.

Personal Protection

Wear appropriate personal protective equipment and clothing including lab coat, safety glasses, gloves and NIOSH-approved respirator. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Avoid contact of material with skin or eyes. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Access to a safety shower and eye-wash.

Physical and Chemical Properties

Appearance: Buffer solution

Boiling Point (for Tris): 219–220°C

Melting Point (for Tris): 171.2–172.3°C

Vapor Pressure: No data available

Vapor Density: No data available

Solubility (Water): Soluble

Specific Gravity: No data available

Percent Volatile: No data available

Evaporation Rate: No data available

Chemical Formula: Mixture



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Stability and Reactivity

Product is stable. Incompatible with oxidizing agents. Hazardous decomposition products include toxic fumes of carbon and nitrogen oxides. Avoid heat and flames. Hazardous polymerization will not occur.

Toxicological Information

Effects of overexposure:

EYES: Contact may cause irritation.

SKIN: Contact may cause redness, swelling and pain at any site, especially mucous membranes.

INHALATION: Excessive inhalation of dust may cause irritation, cough and shortness of breath.

INGESTION: Chronic ingestion or excessive dosage may cause nausea, vomiting, and diarrhea; large amounts may cause weakness, collapse and coma.

Additional Information:

Ingestion may cause irritation to mouth, throat and esophagus and gastrointestinal tract.

Toxicity data listed in RTECS under TY2900000.

Oral Rat LD50 = 5900 mg/kg (Milan, Italy - 1971) Details of toxic effects not reported other than lethal dose value.

Definition(s): RTECS = Registry of Toxic Effects of Chemical Substances.

Ecological Information

No information available.

Disposal Considerations

Dispose of material in accordance with applicable local, state, and federal regulations.

Transportation Information

US DOT/IATA: No applicable information.

Regulatory Information

RCRA: No applicable information.

SARA 302: No applicable information.

SARA 313: No applicable information.

EPA TSCA Section 8(b): Chemical Inventory (Tris).

Exposure Limits: Not established.

California Proposition 65: No applicable information.

This data sheet is based upon information believed to be reliable. The Company makes no statement or warranty as to the accuracy or completeness of the information contained herein which is offered for your consideration, investigation and verification. Any use of the information contained in this data sheet must be determined by the user to be in accordance with appropriate applicable regulations.

