

## Material Safety Data Sheet

Effective Date: 12-01-07

### I. CHEMICAL PRODUCT

Product: Bis Tris Propane  
Synonyms: 1,3-Bis[tris(hydroxymethyl)methylamino]propane  
General Use: Not applicable

EMERGENCY NUMBER (SPILLS, EXPOSURES):

Company: 716-731-5567

CHEMTREC: 800-424-9300

NON-EMERGENCY INFORMATION: 716-731-5567

### II. COMPOSITION / INFORMATION ON INGREDIENTS

Composition:	CAS Number	% by Weight
Bis-Tris Propane	64431-96-5	> 99%

### III. HAZARDS IDENTIFICATION

**Potential Acute Health Effects:**

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

**Potential Chronic Health Effects:**

Hazardous in case of ingestion.  
Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

**Special Toxic Effects:**

The toxicological properties of this material have not been fully investigated.

### IV. FIRST AID MEASURES

Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 20 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention if irritation persists.

Skin: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion: If swallowed, wash out mouth with water, provided person is conscious. Do not induce vomiting. Get medical attention.

Inhalation: If inhaled remove to fresh air. If breathing is difficult give oxygen. If not breathing give artificial respiration. Get medical attention.

### V. FIRE FIGHTING MEASURES

Thermal Decomposition Products: May be combustible at high temperatures.

Products of Combustion: Products are carbon monoxide, carbon dioxide and nitrogen oxides.

Extinguishing Media: Water spray, carbon dioxide, dry chemical powder or appropriate foam.



Fire Fighting Procedures:	Emits toxic fumes under fire conditions. Use water spray to cool containers under fire conditions. Use extinguishing media appropriate to surrounding fire conditions.
General Hazards:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Explosions Hazards:	Not applicable

## VI. ACCIDENTAL RELEASE MEASURES

Small Spill:	Use appropriate tool to put the spilled powder into a convenient waste disposal container.
Large Spill:	Use a shovel to put material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## VII. HANDLING AND STORAGE

Handling:	Use only in a well ventilated area. Avoid inhalation and contact with skin, eyes and on clothing. Keep away from heat and sources of ignition.
Storage:	Store at room temperature. Keep containers tightly closed and upright when not in use.

## VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Control:	Facilities must have a safety shower and and eyewash station. Local exhaust ventilation and appropriate process enclosures are preferred. Wash thoroughly after handling and change into street clothing after work. Do not breathe dust, and avoid contact with eyes, skin and clothing.
Respiratory Protection:	Appropriate NIOSH/MSHA respirator.
Eye Protection:	Chemical safety goggles or safety glasses with side shields. Do not wear contact lenses.
Skin/Hand Protection:	Chemical resistant gloves.
Exposure Limits:	ND

## IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White or off-white powder
Molecular Formula:	$C_{11}H_{26}N_2O_6$
Molecular Weight:	282.3
Boiling Point:	ND
Melting Point:	ND
Specific Gravity:	ND
pH (0.5% solution at 20°C.):	10.4 – 11.0
Solubility in water:	Soluble

## X. STABILITY AND REACTIVITY

Stability:	Stable under normal use.
Incompatibility:	Incompatible with strong oxidizing agents.
Hazardous decomposition products:	Thermal decomposition may produce toxic fumes of carbon monoxide, carbon dioxide and/or NOx.
Hazardous polymerization:	Not occur.

## XI. TOXICOLOGICAL INFORMATION

Routes of Entry:	Hazardous in case of ingestion. Slightly hazardous in case of inhalation, skin and eye contact (irritant).
Toxicity:	Toxicological properties have not been fully investigated.

## XII. ECOLOGICAL INFORMATION

Water/AIR Pollution:	Data not yet available.
Biodegradability:	Data not yet available.

## XIII. DISPOSAL CONSIDERATIONS

Waste Disposal Method:	At disposal time, it is the responsibility of the user of the product to determine, whether the product meets the RCRA criteria for hazardous waste. Contact a licensed professional waste disposal service to dispose of this material.
Container Disposal:	Observe all federal, state and local environmental regulation.

## XIV. TRANSPORT INFORMATION

DOT Classification:	Not a controlled material in the United States.
Identification:	Not applicable.
Special Provisions for Transport:	Not applicable.

## XV. REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:	Listed on the TSCA Inventory.
CERCLA and SARA Regulations (40 CFR 355, 370 and 372):	ND
Canadian WHMIS Hazard Class and Division:	ND
Symbol (European Union):	ND
EEC Warning Label Statement:	ND
Water Pollution Class (Germany):	ND

## XVI. OTHER INFORMATION

The information presented in this Material Safety Data Sheet is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide for safety precautions. It does not relate to use in combination with any material or process. The data does not reflect a guarantee of any product properties.