

#### Revision number: 3 Revision date: 10/06/2014

# 1. IDENTIFICATION

Product name: Product code: Bis(2-hydroxyethyl)aminotris(hydroxymethyl)methane [Good's buffer component for biological research] B1493

Emergency telephone number:

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

Transportation Emergencies:

+1-703-527-3887 (International) Responsible department:

Environmental Health Safety and Security

+1-503-286-7624

Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

+1-503-286-7624

**TCI** America

**TCI AMERICA** 

SAFETY DATA SHEET

Product use: Restrictions on use:

Company:

CI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

For laboratory research purposes.

Not for drug or household use.

Signal word:

Warning!

None

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention] [Response]

> [Storage] [Disposal]

Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. None

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:
Components:
Percent:
CAS Number:
Molecular Weight:
Chemical Formula:
Synonyms:

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Substance Bis(2-hydroxyethyl)aminotris(hydroxymethyl)methane [Good's buffer component for biological research] >99.0%(HPLC)(T) 6976-37-0 209.24 C<sub>8</sub>H<sub>19</sub>NO<sub>5</sub> Bis(2-hydroxyethyl)iminotris(hydroxymethyl)methane , Bis-Tris 4. FIRST-AID MEASURES

4. FIRST-AID MEASURES	
Inhalation:	Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take properties to protect themselves.
Skin contact:	take precautions to protect themselves. If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before re- use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion:	Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute: Delayed:	Redness. No data available
Immediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, CO <sub>2</sub> , sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the che	mical
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Nitrogen oxides Closed containers may explode from heat of a fire.
Special precautions for fire-fighters: Use water spray or fog; do not use straig heated. Move containers from fire area if Special protective equipment for fire-1	
Wear positive pressure self-contained br	eathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may
6. ACCIDENTAL RELEASE MEAS	URES
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.
Personal protective equipment:	Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator, Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective doves

 Personal protective equipment:
 Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).

 Emergency procedures:
 Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the spirator.

Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

## Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:** 

Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

# 7. HANDLING AND STORAGE Precautions for safe handling: Avoid inhalation of vapor or mist. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition. Conditions for safe storage: Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under inert gas (e.g. Argon). Hygroscopic material, store in a tightly sealed container. Storage incompatibilities: Store away from oxidizing agents

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Exposure limits:**

No data available

# Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

#### Personal protective equipment

Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Nitrile gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Lab coat.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Almost white Odorless No data available			
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available No data available No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:		No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)		No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition tempe Flammability or exp Lower:		No data available able
		Upper:	No data avail	able

Solubility(ies): Water: Very soluble Very slightly soluble: Ether, Ethanol

# 10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Strong oxidizing agents No data available

# 11. TOXICOLOGICAL INFORMATION

Bis(2- hydroxyethyl)aminotris(hydroxymethyl)n [Good's buffer component for biological research]	TCI AM nethane	ERICA		Page 4 of 5
Acute Toxicity: No data available				
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
<b>Respiratory or skin sensitization:</b> No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity:				
No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
<b>Reproductive toxicity:</b> No data available				
Routes of Exposure: Symptoms related to exposure: Skin contact may result in inflammation; cha or dry skin. Eye contact may result in redne Potential Health Effects:	aracterized by itching ss or pain.	ntact, Ingestion, Skin contac , scaling, reddening, or occa		contact may result in redness, pain
Skin and eye contact may result in irritation Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity				
Fish: Crustacea:	No data available No data available			
Algae:	No data available			
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM <sup>3</sup> /mol)	No data available No data available No data available No data available No data available No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	rules and regulatic chemical incinerate assistance but doe regulatory complia	ons. You may be able to diss or equipped with an afterbur as not replace these laws, no ince according to the law. US or 40 CFR Parts 261. The pro	olve or mix material wit ner and scrubber syste or does compliance in a S EPA guidelines for Id	mply with Federal, State and Local h a combustible solvent and burn in a m. This section is intended to provide iccordance with this section ensure entification and Listing of Hazardous wed to enter the environment, drains,
Disposal of container: Other considerations:	Dispose of as unu	sed product. Do not re-use e II, state and local regulations		substance.
14. TRANSPORT INFORMATION				
DOT (US)	Non-hazardous for	r transportation.		
ΙΑΤΑ	Non-hazardous for	r transportation.		

#### **TCI AMERICA**

# 14. TRANSPORT INFORMATION

Non-hazardous for transportation.

#### 15. REGULATORY INFORMATION

#### Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

#### **US Federal Regulations**

CERCLA Hazardous substance a	and Reportable Quantity:
SARA 313:	Not Listed
SARA 302:	Not Listed

#### State Regulations

State	Rig	ht-to	-Kno	ow
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Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

#### **Other Information**

NFPA Rating:		HMIS Classification:	
Health:	2	Health:	2
Flammability:	0	Flammability:	0
Instability:	0	Physical:	0

#### International Inventories

WHMIS hazard class: EC-No:

# D2B: Materials causing other toxic effects. (Toxic) 230-237-7

# 16. OTHER INFORMATION

Revision date: 10/06/2014

#### **Revision number: 3**

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.