Safety Data Sheet



Issuing Date 21-Apr-2009 Revision Date 31-Mar-2011 Revision Number 3

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name Tris Hydrochloride

Product Code(s) 0234

Recommended Use For Further Manufacturing Use Only

Not for Human or Animal Drug Use

Recommended Use reagent for stabilization of buffer formulations and the electorphoresis of biological

molecules

Synonyms
Company
AMRESCO, LLC
6681 Cochran Road
Solon, Ohio 44139

TRIS; Tromethane; Tromethamine

Emergency Telephone Number Chemtrec 1-800-424-9300

Company Phone Number

E-mail Address

1-800-448-4442

info@amresco-inc.com

2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Skin Irritant 2 Eye Irritant 2

Signal Word Warning



Hazard Statements H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May

cause respiratory irritation

Precautionary Statements P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P302+ P352 - IF ON

SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a

POISON CENTRE/doctor/physician if you feel unwell

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride	214-684-5	Not available	1185-53-1	95-100	Xi;R36/37/38

FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes

Inhalation Move to fresh air. If not breathing, give artificial respiration.

Ingestion Clean mouth with water and afterwards drink plenty of water

Notes to Physician Treat symptomatically

FIRE-FIGHTING MEASURES

Flammable Properties Not flammable

Flash Point Not determined

Suitable Extinguishing Media Dry chemical, CO₂, sand, earth, water spray or regular foam.

Hazardous Combustion Products Carbon oxides, Nitrogen oxides (NOx).

Explosion Data

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
Not sensitive
Not sensitive

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Methods for Containment Prevent further leakage or spillage if safe to do so

Methods for Cleaning Up Avoid of

Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling Hygroscopic. Handle in accordance with good industrial hygiene and safety

practice.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place

Incompatible Products Bases. Strong oxidizers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,3-Propanediol,			
2-amino-2-(hydroxymethyl)-,			
hydrochloride			
1185-53-1			

Engineering Measures Showers

Eyewash stations Ventilation systems

Personal Protective Equipment

Eye/Face Protection
Skin and Body Protection
Respiratory Protection

Safety glasses with side-shields. Wear protective gloves/clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be

required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White

Odor No information available
Odor Threshold No information available
Decomposition Temperature °C
Freezing Point No information available
Initial Boiling Point No information available
No information available

Physical State Crystalline powder to needle -like crystals

pHNo data availableFlash PointNot determinedAutoignition TemperatureNo data availableBoiling Point/RangeNo data availableMelting Point/RangeNo data available

Flammability Limits in Air Upper No data available Lower No data available

No data available

Explosive Properties

Oxidizing Properties

Evaporation Rate

MMHG @ 37.8 C

Vapor Density

No information available
No data available
No data available
No data available

Solublity Soluble

Partition Coefficient No data available

(n-octanol/water)

Specific Gravity

Viscosity No information available

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Incompatible Products Bases. Strong oxidizers.

Conditions to Avoid Protect from moisture.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx).

Hazardous Polymerization Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Causes skin, eye and respiratory tract irritation.

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied

Target Organ Effects Eyes, Skin, Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
1,3-Propanediol, 2-amino-2-(hydroxymet hyl)-, hydrochloride	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
1,3-Propanediol, 2-amino-2-(hydroxymethyl) -, hydrochloride 1185-53-1 (95-100)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

International Inventories

TSCA Complies EINECS/ELINCS Complies

ENCS Does not Comply

IECSCCompliesKECLCompliesPICCSCompliesAICSComplies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class

D2B Toxic materials



16. OTHER INFORMATION

Issuing Date 21-Apr-2009

Revision Date 31-Mar-2011

Revision Note

No information available.

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS