

SAFETY DATA SHEET

1. Identification

Product identifier	Tripelennamine Hydrochlorid	le	
Other means of identification			
Catalog number	1695004		
Chemical name	1,2-Ethanediamine, N,N-dimeth	nyl-N'-(phenylmethyl)-N'-2-pyridinyl-, monohydrochloride	
Synonym(s)	Pyribenzamine hydrochloride		
Recommended use	Specified quality tests and assa	ay use only.	
Recommended restrictions	Not for use as a drug. Not for administration to humans or animals.		
Manufacturer/Importer/Supplier/	Distributor information		
Company name Address	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 US		
Telephone Website E-mail	RS Technical Services www.usp.org RSTECH@usp.org	301-816-8129	
Emergency phone number	CHEMTREC within US & Canada CHEMTREC outside US & Canada	1-800-424-9300 +1 703-527-3887	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
OSHA hazard(s)	Not classified.	

Label elements



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Signal word	Warning
Hazard statement	Harmful if swallowed. May cause drowsiness or dizziness.
Precautionary statement	
Prevention	Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.
Response	If swallowed: Call a poison center/doctor/ if you feel unwell. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Not classified.

3. Composition/information on ingredients

Substance			
Hazardous components Chemical name	Common name and synonyms	CAS number	%
Tripelennamine Hydrochloride	Pyribenzamine hydrochloride	154-69-8	100

4. First-aid measures Inhalation Move to fresh air. Call a POISON CENTER or doctor/physician if you feel unwell. Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists. Eye contact Rinse with water. Get medical attention if irritation develops and persists. Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Most important Central nervous system effects. symptoms/effects, acute and delayed Indication of immediate Treatment of overdose should be symptomatic and supportive and may include the following: medical attention and special 1. Immediate evacuation of stomach by induced vomiting. Gastric lavage may be performed if person is unable to vomit within 3 hours of ingestion. treatment needed 2. Saline cathartics are sometimes used. 3. For hypotension, administer vasopressors, but DO NOT use epinephrine, which may further lower blood pressure. DO NOT use stimulants (analeptic agents), which may cause seizures. Give oxygen and intravenous fluids if needed. [USP DI 2003] General information Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. 5. Fire-fighting measures Suitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials. Water. Foam. Dry chemical or

	CO2.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire-fighting equipment/instructions	Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.

7. Handling and storage

Precautions for safe handling
As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly.
Conditions for safe storage, including any incompatibilities
Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

8. Exposure controls/personal protection

Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	No exposure standards allocated.
Appropriate engineering controls	Airborne exposure should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g., bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.

Skin protection	
Hand protection	Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.
Other	Not available.
Respiratory protection	Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH-approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.134).
Thermal hazards	Not available.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Appearance	White crystalline powder.
Physical state	Solid.
Form	Powder.
Odor	amine odor.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	377.6 - 379.4 °F (192 - 193 °C) (also reported as 188 - 192 ° C)
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.0000001 kPa at 25 °C
Vapor density	Not available.
Relative density	Not available.
Solubility in water	Freely soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Chemical family	Ethylenediamine derivative.
Molecular formula	C16H21N3 . HCI
10. Stability and reactivity	
Reactivity	No reactivity hazards known.
Chemical stability	Stable at normal conditions.
Possibility of hazardous	No dangerous reaction known under conditions of normal use.

reactions	
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

11. Toxicological information

Information on likely routes of exposure

Information on likely routes of e	xposure		
Ingestion	Harmful if swallowed.		
Inhalation	Due to lack of data the classification is not possible.		
Skin contact	Due to lack of data the classification is not possible.		
Eye contact	Due to lack of data the classification is not possible.		
Symptoms related to the physical, chemical, and toxicological characteristics	For antihistamines: Nausea. Diarrhea. Stomach pain. Change in appetite. Change in weight. Difficult or painful urination. Headache. Drowsiness. Dizziness. Tiredness. Weakness. Trouble sleeping. Clumsiness. Unsteadiness. Blurred vision. Changes in vision. Ringing or buzzing in ears. Confusion. Fainting. Hallucinations. Seizures. Sore throat. Fever. Chills. Bleeding or bruising. Thickening of mucus. Dry mouth, nose, or throat. Sweating. Sensitivity to sunlight. Skin rash. Clay-colored stools. Dark urine. Burning, prickly sensations. Tingling. Flushing. Trouble breathing. Fast heartbeat. Irregular heartbeat. Fixed or dilated pupils.		
Delayed and immediate effects of exposure	For antihistamines: Coma. Death.		
Cross sensitivity	Persons sensitive to other antihistamines may be ser	nsitive to this material also.	
Medical conditions aggravated by exposure	For antihistamines: Active alcoholism. Bronchial asth Hypertension. Urinary retention. Bladder neck obstru Peptic ulcer. Pyloric obstruction. Concurrent use of m	ction. Prostate enlargement. Glaucoma.	
Acute toxicity	Harmful if swallowed.		
Product	Species	Test Results	
Tripelennamine Hydrochloride (CA	S 154-69-8)		
Oral			
LD50	Mouse	97 mg/kg	
	Rat	469 mg/kg	
Skin corrosion/irritation	Due to lack of data the classification is not possible.		
Serious eye damage/eye irritation	Due to lack of data the classification is not possible.		
Respiratory sensitization	Due to lack of data the classification is not possible.		
Skin sensitization	Due to lack of data the classification is not possible.		
Germ cell mutagenicity	Due to lack of data the classification is not possible.		
Carcinogenicity	Due to lack of data the classification is not possible.		
Reproductive toxicity	Due to lack of data the classification is not possible.		
Specific target organ toxicity - single exposure	Causes damage to organs (narcotic effects).		
Specific target organ toxicity - repeated exposure	Due to lack of data the classification is not possible.		
Aspiration hazard	Based on available data, the classification criteria are	e not met.	
12. Ecological information			
Ecotoxicity	There are no data on the ecotoxicity of this product.		
Persistence and degradability	No data is available on the degradability of this produ	ict.	
Bioaccumulative potential	Not available.		
Mobility in soil	Not available.		
Other adverse effects	Not available.		
13. Disposal consideration	IS		
Disposal instructions	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.		
Local disposal regulations	Dispose of in accordance with local regulations.		
Hazardous waste code	Not available.		
Waste from residues / unused products	Dispose of in accordance with local regulations. Emp product residues. This material and its container mus Disposal instructions).		
Contaminated packaging	Empty containers should be taken to an approved wa Since emptied containers may retain product residue emptied.		

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

ΙΑΤΑ

Not regulated as a dangerous good.

Transport in bulk according to No information available. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

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US federal regulations	CERCLA/SARA Hazardous Substances - Not applicable.	
	One or more components are not listed on TSCA.	
Superfund Amendments and Re	authorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazardous substance	No	
SARA 311/312 Hazardous chemical	Yes	
Other federal regulations		
Safe Drinking Water Act (SDWA)	Not regulated.	
Food and Drug Administration (FDA)	Not regulated.	
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Propo is not known to contain any chemicals currently listed as carcinogens or re	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No
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*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other information, including date of preparation or last revision

Issue date	05-07-2003
Revision date	02-27-2015
Version #	02
Further information	Not available.

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Revision Information

This document has undergone significant changes and should be reviewed in its entirety.