

# SAFETY DATA SHEET

## 1. Identification

Product identifier	Carbinoxamine Maleate	
Other means of identification		
Catalog number	1096000	
CAS number	3505-38-2	
Synonyms	p-Carbinoxamine maleate	
Chemical name	Ethanamine, 2-[(4-chlorophe	enyl)-2-pyridinylmethoxy]-N,N-dimethyl-, (Z)-2-butenedioate (1:1)
Recommended use	Specified quality tests and a	issay use only.
Recommended restrictions	Not for use as a drug. Not for	or administration to humans or animals.
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 United States	
Telephone	<b>RS</b> Technical Services	301-816-8129
Website	www.usp.org	
E-mail	RSTECH@usp.org	
Emergency phone number	CHEMTREC within US & Canada	1-800-424-9300
	CHEMTREC outside US & Canada	+1 703-527-3887
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 3
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Toxic if swallowed.	
Precautionary statement		
Prevention	Wash thoroughly after hand	lling.
Response	If swallowed: Immediately ca	all a poison center/doctor. Rinse mouth.
Storage	Store locked up.	
Disposal	Dispose of contents/contain	er in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	Pharmacologically active ma	aterial.
3. Composition/information on ingredients		

#### Substance

Chemical name	Common name and synonyms	CAS number	%
Carbinoxamine Maleate	p-Carbinoxamine maleate	3505-38-2	100

## 4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eve contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	Pharmacologically active material. Occupational exposure may cause physiological effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. For antihistamine overdose: Administer activated charcoal as an aqueous slurry. Consider gastric lavage if it can be administered within one hour of ingestion, unless contraindicated. Protect airway and control seizures before initiating. Sedation with benzodiazepines will control tachycardia. If severe, beta blocking agents such as esmolol may be used, but use with caution in patients with asthma or COPD. Ventricular arrhythmias may be treated with lidocaine. Dysrhythmias may respond to sodium bicarbonate. Monitor blood pH. Torsades De Pointes: Electrical cardioversion may be required in hemodynamically unstable patients; magnesium, isoproterenol, and/or atrial overdrive pacing may be used for stable patients. Treat seizures and agitation with a benzodiazepine IV. Dystonia may be treated with oral or IV diazepam. For hypotension, infuse isotonic fluid. Administer dopamine or norepinephrine if persistent. [Meditext]
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	Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.

Wear suitable protective equipment.

and precautions for firefighters 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. equipment/instructions Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. General fire hazards

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Special protective equipment

**Fire fighting** 

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Avoid inhalation of dust from the spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	For waste disposal, see section 13 of the SDS. Avoid the generation of dusts during clean-up. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
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. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential.
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

	No exposure limits noted for ingredient(s). No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	For laboratory operations, use local exhaust ventilation or a ventilated enclosure for high energy operations such as particle sizing. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

#### Individual protection measures, such as personal protective equipment

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Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
Skin protection	
Hand protection	Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.
Other	Train employees in proper gowning and degowning practices. Wear lab coat. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors.
Respiratory protection	Respirators are generally not required for laboratory operations. Use a tight-fitting full-face respirator with HEPA filters for spill cleanup. Chose respiratory protection appropriate to the task and the level of existing engineering controls.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment.

## 9. Physical and chemical properties

Appearance	Appearance descriptions are general information and not specific to any USP lot.
Physical state	Solid.
Form	Crystalline powder.
Color	White.
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	240.8 - 249.8 °F (116 - 121 °C)
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.000006 kPa at 25 °C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Very soluble.
Solubility (other)	Alcohol: Freely soluble. Chloroform: Freely soluble. Ether: Very slightly soluble.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Chemical family	Ethanolamine derivative.
Molecular formula	C16H19CIN2O.C4H4O4
Molecular weight	406.86
pH in aqueous solution	4.6 - 5.1 (1% solution)
10 Stability and reactivity	

## 10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	None known.
Hazardous decomposition products	NOx, Cl Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

## 11. Toxicological information

Information on likely routes of	exposure
Inhalation	Knowledge about health hazard is incomplete.
Skin contact	Knowledge about health hazard is incomplete.
Eye contact	Knowledge about health hazard is incomplete.
Ingestion	Toxic if swallowed.
Symptoms related to the physical, chemical, and toxicological characteristics	For antihistamines: Gastrointestinal disturbances. Drowsiness. Dizziness. Weakness. Trouble sleeping. Clumsiness. Blurred vision. Confusion. Dry mouth. Irregular heart beat. Urination problems.
Information on toxicological effects	

Toxic if swallowed. Acute toxicity Product Species **Test Results** Carbinoxamine Maleate (CAS 3505-38-2) Acute Oral LD50 Guinea pig 411 mg/kg Mouse 162 mg/kg Skin corrosion/irritation Knowledge about health hazard is incomplete. Serious eye damage/eye Knowledge about health hazard is incomplete. irritation Respiratory or skin sensitization Knowledge about health hazard is incomplete. **Respiratory sensitization** Knowledge about health hazard is incomplete. Skin sensitization Knowledge about mutagenicity is incomplete. Germ cell mutagenicity Knowledge about carcinogenicity is incomplete. Carcinogenicity IARC Monographs. Overall Evaluation of Carcinogenicity Not listed. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. US. National Toxicology Program (NTP) Report on Carcinogens Not listed. Based on available data, the classification criteria are not met. **Reproductive toxicity** Reproductivity 100 mg/kg Reproductivity / Developmental Result: Negative: Fetotoxic but not teratogenic. Species: Mouse 80 mg/kg Reproductivity / Developmental Result: Negative: Not teratogenic. Pups were smaller than normal. Species: Rat Specific target organ toxicity -Knowledge about health hazard is incomplete. single exposure Knowledge about health hazard is incomplete. Specific target organ toxicity repeated exposure Aspiration hazard Based on available data, the classification criteria are not met. **Further information** Pharmacologically active material. Occupational exposure may cause physiological effects. 12. Ecological information Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

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 in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

DOT	
UN number	UN2811
UN proper shipping name	Toxic solid, organic, n.o.s. (Carbinoxamine Maleate)
Transport hazard class(es)	
Class	6.1
Subsidiary risk	-
Packing group	III
ΙΑΤΑ	
UN number	UN2811
UN proper shipping name	Toxic solid, organic, n.o.s. (Carbinoxamine Maleate)
Transport hazard class(es)	
Class	6.1
Subsidiary risk	-
Packing group	III
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
DOT; IATA	



**General information** 

It is the shipper's responsibility to determine the correct transport classification at the time of shipment.

## 15. Regulatory information

**US** federal regulations

CERCLA/SARA Hazardous Substances - Not applicable.

All components are on the U.S. EPA TSCA Inventory List. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4)

USHA Specifically Pequilate		
Not regulated.	ed Substances (29 CFR 1910.1001-1050)	
Superfund Amendments and Re	eauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazar Not listed.	dous substance	
SARA 311/312 Hazardous chemical	Yes	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
-	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated.	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
	Not regulated. California Safe Drinking Water and Toxic Enforcement Act of 1986 ( is not known to contain any chemicals currently listed as carcinogen	
(SDWA) JS state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (	
(SDWA) JS state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (	s or reproductive toxins.
(SDWA) JS state regulations nternational Inventories	California Safe Drinking Water and Toxic Enforcement Act of 1986 ( is not known to contain any chemicals currently listed as carcinogen	s or reproductive toxins. On inventory (yes/no)
(SDWA) JS state regulations nternational Inventories Country(s) or region	California Safe Drinking Water and Toxic Enforcement Act of 1986 ( is not known to contain any chemicals currently listed as carcinogen	s or reproductive toxins. <b>On inventory (yes/no</b> ) Ye
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(SDWA) JS state regulations International Inventories Country(s) or region Australia Canada Canada	California Safe Drinking Water and Toxic Enforcement Act of 1986 ( is not known to contain any chemicals currently listed as carcinogen <b>Inventory name</b> Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL)	s or reproductive toxins. <b>On inventory (yes/no)</b> Ye N Ye N
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(SDWA) JS state regulations nternational Inventories Country(s) or region Australia Canada Canada China Europe Europe Japan	California Safe Drinking Water and Toxic Enforcement Act of 1986 ( is not known to contain any chemicals currently listed as carcinogen <b>Inventory name</b> Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS)	s or reproductive toxins. On inventory (yes/no) Ye N Ye N Ye N Ye
(SDWA) JS state regulations International Inventories Country(s) or region Australia Canada Canada China Europe Europe Japan Korea	California Safe Drinking Water and Toxic Enforcement Act of 1986 ( is not known to contain any chemicals currently listed as carcinogen <b>Inventory name</b> Australian Inventory of Chemical Substances (AICS) Domestic Substances List (DSL) Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC) European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Inventory of Existing and New Chemical Substances (ENCS) Existing Chemicals List (ECL)	

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	03-02-2006
Revision date	11-13-2017
Version #	03
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