

SAFETY DATA SHEET

1. Identification

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Product identifier	Almotriptan Malate			
Other means of identification	1010510			
Catalog number CAS number	1013512 181183-52-8			
		1 1 Lindol E vilmothvill	ulfonullourroliding (+/) hydroxybutopodioato
Chemical name	1-[[[3-[2-(Dimethylamino)ethyl (1:1)		sunonyijpyrroname (+/-)- hydroxybulanedioale
Recommended use	Specified quality tests and ass			
Recommended restrictions	Not for use as a drug. Not for	administration to huma	ins or animals.	
Manufacturer/Importer/Supplier/ Manufacturer	Distributor information			
Company name Address Telephone	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 United States RS Technical Services	301-816-8129		
Website	www.usp.org	501-010-0125		
E-mail Emergency phone number	RSTECH@usp.org CHEMTREC within US &	1-800-424-9300		
	Canada CHEMTREC outside US & · Canada	+1 703-527-3887		
2. Hazard(s) identification				
Physical hazards	Not classified.			
Health hazards	Not classified.			
Environmental hazards	Not classified.			
OSHA defined hazards	Not classified.			
Label elements				
Hazard symbol	None.			
Signal word	None.			
Hazard statement	Not available.			
Precautionary statement				
Prevention	Not available.			
Response	Not available.			
Storage	Not available.			
Disposal	Not available.			
Hazard(s) not otherwise classified (HNOC)	None known.			
Supplemental information	Pharmacologically active mate	erial.		
3. Composition/informatio	n on ingredients			
Substance				
Chemical name	Common name and syn	onyms	CAS number	%
Almotriptan Malate			181183-52-8	100
4. First-aid measures				
Inhalation	Move to fresh air. Call a physi	cian if symptoms deve	lop or persist.	
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.		nd persists.	
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.			
Ingestion	Rinse mouth. If ingestion of a	large amount does occ	cur, call a poison contr	ol center immediately.
Material name: Almotriptan Malate				USP SDS US

Material name: Almotriptan Malate

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. Triptan overdose may include the following: Administer activated charcoal as a slurry. For severe hypertension, administer nitroprusside. Nitroglycerin or phentolamine may be used as alternates. For ventricular arrhythmia, institute continuous cardiac monitoring and administer oxygen. Administer lidocaine and amiodarone for stable monomorphic ventricular tachycardia. Sotalol may be used as an alternate. If QT prolongation or torsades de pointes is present, don't use amiodarone or sotalol. For serotonin syndrome administer benzodiazepines. Cyproheptadine may be helpful. If severe, manage with benzodiazepine sedation and neuromuscular paralysis with non-depolarizing agents. Monitor for hypertension, ventricular dysrhythmias, ischemia, acidosis, and electrolyte disorders. Evaluate pulse oximetry and/or ABGs if chest pain or shortness of breath is present. [Drugdex 2009]
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	

	materials.
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.
General fire hazards	No unusual fire or explosion hazards noted.

Water. Foam. Dry chemical or CO2. Use fire-extinguishing media appropriate for surrounding

6. Accidental release measures

Suitable extinguishing media

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	Store in tight container as defined in the USP-NF. This material should be handled and stored per

Store in tight container as defined in the USP-NF. This material should be handled and stored per Conditions for safe storage, including any incompatibilities label instructions to ensure product integrity.

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).	
Biological limit values	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		

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Eye/face protection 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. Off-white.	
Odor	Odorless.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	332.6 - 343.4 °F (167 - 173 °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	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Soluble.	
Solubility (other)	Methanol: Slightly soluble.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Molecular formula	C17H25N3O2S . C4H6O5	
Molecular weight	469.55	
pH in aqueous solution	4.1 (1% solution)	
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	

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	Strong oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. NOx, SOx.

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	Knowledge about health hazard is incomplete.	
Symptoms related to the physical, chemical, and toxicological characteristics	Triptans: Dizziness. Weakness. Fatigue. Gastrointestinal disturbances. Sensory disturbances. Heaviness, tightness, or pressure in chest, neck or jaw. Serotonin syndrome (agitation, incoordination, mood or mental changes, irregular heartbeat, hallucinations).	
Information on toxicological effects		
Acute toxicity	Not known.	
Skin corrosion/irritation	Knowledge about health hazard is incomplete.	

Serious eye damage/eye	Knowledge about health hazard is incomplete.
irritation	

Respiratory or skin sensitization

Respiratory sensitization	Knowledge about health hazard is incomplete.
Skin sensitization	Knowledge about health hazard is incomplete.
Germ cell mutagenicity	Knowledge about mutagenicity is incomplete.

Mutagenicity

Ames test (Salmonella typhimurium) Result: Negative. In vivo (mouse) micronucleus test Result: Negative. Mutagenicity, Thymidine locus assay in mouse lymphoma cells Result: Negative.

Carcinogenicity

250 mg/kg/day Carcinogenicity, administered by oral gavage.
Result: Negative: No increase in tumors noted.
Species: Mouse
Test Duration: 103 weeks
75 mg/kg/day Carcinogenicity, administered by oral gavage.
Result: Negative: No increase in tumors noted.
Species: Rat
Test Duration: 104 weeks

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.	
Reproductive toxicity	

Specific target organ toxicity - single exposure	Knowledge about health hazard is incomplete.
Specific target organ toxicity - repeated exposure	Knowledge about health hazard is incomplete.
Aspiration hazard	Based on available data, the classification criteria are not met.
Further information	Pharmacologically active material. Occupational exposure may cause physiological effects.

Knowledge about health hazard is incomplete.

Based on available data, the classification criteria are not met.

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	Dispose of in accordance with local regulations. 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. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and

the IBC Code

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

This product is not known to be 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)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAP	s) List
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Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

International Inventories

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material
-	is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No

Material name: Almotriptan Malate

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Country(s) or region	Inventory name	On inventory (yes/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)	No
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

*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	01-21-2010
Revision date	11-13-2017
Version #	03
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