



Health	2
Fire	1
Reactivity	0
Personal Protection	Ε

Material Safety Data Sheet Amlodipine Besylate MSDS

Section 1: Chemical Product and Company Identification		
Product Name: Amlodipine Besylate	Contact Information:	
Catalog Codes: SLA3169	Sciencelab.com, Inc. 14025 Smith Rd.	
CAS#: 111470-99-6	Houston, Texas 77396	
RTECS: US7967700	US Sales: 1-800-901-7247 International Sales: 1-281-441-4400	
TSCA: TSCA 8(b) inventory: No products were found.	Order Online: ScienceLab.com	
CI#: Not available.	CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300	
Synonym: Amlodipine benzenesulfonate; Amlodipine		
besilate; Norvasc	International CHEMTREC, call: 1-703-527-3887	
Chemical Name: 3,5-Pyridinecarboxylic acid, 2-((aminoethoxy)methyl)-4-(2-chlorophenyl)-1,4-dihydro-6-m 3-ethyl-5-methyl ester, monobenzenesulfonate	For non-emergency assistance, call: 1-281-441-4400 nethyl,	
Chamical Formula: C20 H25 CLN 2 O5 C6 H6 O2 S		

Section 2: Composition and Information on Ingredients

Composition:			
Name	CAS #	% by Weight	
Amlodipine Besylate	111470-99-6	100	

Toxicological Data on Ingredients: Amlodipine Besylate: ORAL (LD50): Acute: 393 mg/kg [Rat]. 37 mg/kg [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...), halogenated compounds.

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: As with most organic solids, fire is possible at elevated temperatures

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Crystalline powder.)

Odor: Not available.

Taste: Not available.

Molecular Weight: 567.1 g/mole

Color: White.

pH (1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

lonicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility:

Slightly soluble in cold water. Sparingly soluble in ethanol.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat

Incompatibility with various substances: Not available.

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 37 mg/kg [Mouse].

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Inhalation: May cause respiratory tract irritation.

Ingestion: Harmful if swallowed. May cause abdominal pain, nausea, vomiting, dry mouth, thirst, increasd sweating, rash, anorex/decreased weight or weight gain, constipation, diarrhea, dyspepsia, flatulence, flushing, edema, pancreatitis, gingival hyperplasia, malaise. It affects the cardiovascular system. Symptoms of cardiovascular effects may include arrhythmia(including ventricular tachycardia and atrial fibrillation), bradycardia, chest pain, hypotension, peripheral ischemia, syncope, tachycardia, palpitations, postural dizziness, postural hypotension, vasculitis. It may also affect behavior/central nervous system/peripherial nervous system, eyes/vision, ears, respiratory system, urinary system, blood, musculoskeletal system. Symptoms may include headache, hypoeasthesia, peripheral neuropathy, paresthesia, tremor, fatigue, vertigo, insomnia, sexual dysfunction, nervousness, somnolence, depression, abnormal dreams, anxiety, depersonalization, abnormal vision, conjunctivitis, diplopia, eye pain, tinnitus, dyspnea, epistaxis, micturation frequency, micturition disorder, acute renal failure, acute tubular necrosis, nocturia, leukopenia, thrombocytopenia, purpura, arthralgia, arthrosis, muscle cramps, back pain, rigors, myalgia.

Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may have similar effects to that of acute ingestion. Medical Conditions Aggravated by Exposure: Impaired liver function, congestive heart failure, allergy related to calcium channel blockers, unstable angina, aortic stenosis, cardiogenic shock, pregancy.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: No products were found.

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

R22- Harmful if swallowed. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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