

Revision number: 1.1 Revision date: 07/06/2018

1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:

Signal word:

Hazard Statement(s):

Amlodipine Besylate A2353

For laboratory research purposes. Not for drug or household use.

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SAFETY DATA SHEET

Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Acute Toxicity - Oral [Category 4]

Harmful if swallowed Causes skin irritation Causes serious eye irritation

Warning!

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Disposal]

Hazards not otherwise classified: [HNOC] Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection.

If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

None.

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	N INGREDIENTS		
Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula: Synonyms:	Substance Amlodipine Besylate >98.0%(HPLC)(N) 111470-99-6 567.05 C ₂₀ H ₂₅ ClN ₂ O ₅ · C ₆ H ₅ SO ₃ H 2-(2-Aminoethoxy)methyl-4-(2-chlorophenyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylic Acid 3-Ethyl 5-Methyl Ester Benzenesulfonate , 3-Ethyl 5-Methyl 2-(2-Aminoethoxy)methyl-4-(2-chlorophenyl)-6-methyl-1,4-dihydropyridine-3,5-dicarboxylate Benzenesulfonate		
4. FIRST-AID MEASURES			
Description of first aid measures Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.		
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.		
Eye contact: Ingestion:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.		
Symptoms/effects:			
Acute:	Redness.		
Delayed:	No data available		
Not available. Notes to physician: No data available 5. FIRE-FIGHTING MEASURES			
Outtable authoridable er er elle			
Suitable extinguisning media:	Dry chemical, foam, water spray, carbon dioxide.		
Specific hazards arising from the	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume		
Specific hazards arising from the chemical: Hazardous combustion products:			
Specific hazards arising from the chemical: Hazardous combustion products: Other specific hazards:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume These products include: Carbon oxides Sulfur oxides		
Suitable extinguishing media: Specific hazards arising from the chemical: Hazardous combustion products: Other specific hazards: Advice for firefighters: 6. ACCIDENTAL RELEASE MEASUF	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume These products include: Carbon oxides Sulfur oxides WARNING: Highly toxic HCI gas is produced during combustion. Wear self-contained breathing apparatus if possible.		
Specific hazards arising from the chemical: Hazardous combustion products: Other specific hazards: Advice for firefighters: <u>6. ACCIDENTAL RELEASE MEASUF</u> Personal precautions, protective equipment and emergency procedures: Environmental precautions:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume These products include: Carbon oxides Sulfur oxides WARNING: Highly toxic HCI gas is produced during combustion. Wear self-contained breathing apparatus if possible.		
Specific hazards arising from the chemical: Hazardous combustion products: Other specific hazards: Advice for firefighters: <u>6. ACCIDENTAL RELEASE MEASUF</u> Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume These products include: Carbon oxides Sulfur oxides WARNING: Highly toxic HCl gas is produced during combustion. Wear self-contained breathing apparatus if possible. RES Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains. Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected		
Specific hazards arising from the chemical: Hazardous combustion products: Other specific hazards: Advice for firefighters: <u>6. ACCIDENTAL RELEASE MEASUR</u> Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up:	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume These products include: Carbon oxides Sulfur oxides WARNING: Highly toxic HCl gas is produced during combustion. Wear self-contained breathing apparatus if possible. RES Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains. Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected		
Specific hazards arising from the chemical: Hazardous combustion products: Other specific hazards: Advice for firefighters: 6. ACCIDENTAL RELEASE MEASUF Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up: 7. HANDLING AND STORAGE	Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume These products include: Carbon oxides Sulfur oxides WARNING: Highly toxic HCl gas is produced during combustion. Wear self-contained breathing apparatus if possible. RES Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. Prevent product from entering drains. Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.		

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.
Personal protective equipment	
Respiratory protection:	Dust respirator. Follow local and national regulations.
Hand protection:	Protective gloves.
Eye protection:	Safety glasses. A face-shield, if the situation requires.
Skin and body protection:	Protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder White - Slightly pale green No data available No data available No data available		
Melting point/freezing point:	200°C (dec.) (392°F)	pH:	No data available
Boiling point/range:	No data available	Vapour pressure:	No data available.
Decomposition temperature:	No data available	Vapour density:	No data available
Relative density:	No data available	Dynamic Viscosity:	No data available
Kinematic viscosity:	No data available		
Log Pow:	No data available	Evaporation rate(Butyl Acetate=1):	No data available
Flash point: Flammability(solid, gas):	No data available No data available	Autoignition temperature: Flammability or explosive limits:	No data available
		Lower:	No data available
		Upper:	No data available
Solubility(ies): [Water] [Other solvents]	Slightly soluble No data available		

10. STABILITY AND REACTIVITY

Reactivity:No data availableChemical stability:Stable under proper conditions.Possibility of hazardous reactions:No special reactivity has been reported.Incompatible materials:Oxidizing agentsHazardous decomposition products:Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx), Hydrogen chloride, Sulfur oxides

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11. TOXICOLOGICAL INFORMATION

RTECS Number: US7967700

Acute Toxicity: orl-rat LD50:393 mg/kg scu-rat LD50:678 mg/kg	ipr-rat LD50:42 mg/kg			
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity: No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: orl-rat TDLo:260 mg/kg (17-21D preg/21D post)orl-mus TDLo:33600 ug/kg (0-20D preg)				
Target organ(s):	No data available			
12. ECOLOGICAL INFORMATION				
Ecotoxicity:				
Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available			
Log Pow:	No data available			
Soil adsorption (Koc): Henry's Law (PaM³/mol):	No data available No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	Local rules and re and burn in a cher intended to provid with this section er Identification and I	gulations. You may be able t nical incinerator equipped wi e assistance but does not re nsure regulatory compliance Listing of Hazardous Waste a	to dissolve or mix ma th an afterburner and place these laws, not according to the law are listed in 40 CFR I	Parts 261. The product should not
Disposal of container: Other considerations:	be allowed to enter the environment, drains, water ways, or the soil. Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.			
14. TRANSPORT INFORMATION				
DOT (US)	Non-hazardous for	r transportation.		
IATA_	Non-hazardous for transportation.			
IMDG	Non-hazardous for			

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed

SARA 302:	Not Listed
State Regulations	
State Right-to-Know	
Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed
Other Information	

NFPA Rating: Health: 2 Flammability: 0 Instability: 0

HMIS Classification: Health: 2 Flammability: 0 Physical: 0

International Inventories

16. OTHER INFORMATION

Revision date: 07/06/2018

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.