MATERIAL SAFETY DATA SHEET

Product

: AMLODIPINE BESYLATE

Date of Issue

: 26.05.2014

Revision No: 06

1. **IDENTIFICATION OF SUBSTANCE**

Trade Name:

AMLODIPINE BESYLATE

Company

Cipla Limited

Head Office - 289, Bellasis Road, Mumbai Central. Mumbai, Maharashtra, India (Pin Code - 400 008)

Manufacturing division -Cipla Limited, Virgonagar.

Old Madras road Bangalore-560049

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Emergency Contact No

ckkulkarni@cipla.com Web Site: : 022-23082891 / 022-23095521 / 022-23070160

Note

Active pharmaceutical ingredient for Human consumption

2. **HAZARD IDENTIFICATION**

Classification as per EC-

Physical

: Not Classified

Health

: Acute Toxicity, Category - 4

Environmental

: Toxic to aquatic life with long lasting effects.

Label in accordance with EC-



Hazard Symbols

Single Word

Warning

Contains

: Amlodipine Besylate Pure Material

Hazard Statement -

H302: Harmful if swallowed

H318: causes serious eve damage.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement - P264: Wash hands and other exposed areas thoroughly after

handling.

P270: Do not eat, Drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear Protective gloves/protective clothing /eye protection /

face protection

P301+P312: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell

P305+P351+P338: IF IN Eyes: Rinse cautiously with water for Several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

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MATERIAL SAFETY DATA SHEET

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Date of Issue : 26.05.2014 Revision No: 06

> P330: Rinse mouth. P391: Collect spillage.

P501: Dispose of contents/ container to Hazardous waste. Comply

with applicable regulations.

3. **COMPOSITION / INFORMATION ON INGERDIENTS**

Chemical Name : 3, 5-pyridinedicarboxylic acid, 2-[(2-aminoethoxy) methyl]-4-(2chlorophenyl)-1, 4-dihydro-6- methyl-, 3-ethyl 5-methyl ester (±)-, monobenzenesulphonate.

Molecular Formula : C₂₆H₃₁CIN₂O₈ S

Molecular Weight : 567.05 EC No : 1901/2006 CAS No : 111470-99-6 **UN No** : 3077

FIRST AID MEASURES 4.

General Advice : Minimize dust generation and accumulation. avoid breathing dust and avoid contact with eyes, skin, and clothing. When handling, use appropriate personal protective

equipment. Inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration..

If breathing is difficult, give oxygen. Get medical attention

: Wash with soap and water. get medical attention if irritation develops. Skin Contact

Eve Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15minutes. get medical attention if irritation

develops.

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

NOTES TO HEALTH PROFESSIONALS

Medical Treatment additional details.

: Treat symptomatically. Consult the physicians' desk reference for

Medical conditions caused: No Specific data available.

or aggravated by exposure

Antidote : No Specific data available.

5. FIRE FIGHTING MEASURES

Fire and Explosion hazard: This material is assumed to be combustible. As with all dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential build up of static electricity

Extinguishing media

: Water spray, dry chemical, carbon dioxide or foam as appropriate

for surrounding fire and materials.

Special fire fighting Procedure & protective Measures: As with all fires, evacuate personnel to a safe area. Fire- fighters should use self-contained breathing apparatus and protective clothing

Hazardous Combustion Products: Hazardous combustion or decomposition products are expected when the product is exposed to fire.

28.05.2019

MATERIAL SAFETY DATA SHEET

Product

: AMLODIPINE BESYLATE

Date of Issue

: 26.05.2014

Revision No: 06

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

: Wear self-contained breathing apparatus, rubber boots & heavy

rubber gloves.

Environmental Precaution: For large spills, take precautions to prevent entry into waterways, sewers, or surface drainage systems.

Clean – up procedure

: Collect and place it in a suitable, properly labeled container for

recovery or disposal. avoid the generation dust during clean-up.

Decontamination Procedure: Material should be disposed of in keeping with all local and national legislation. Packaging should be disposed of in keeping with all local and national legislation. Handle contaminated containers as product.

7. HANDLING AND STORAGE

Handling: 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:

- 1. Bulk Storage Store in tight, light-resistant container at 15 to 30 °C.
- Department storage Store in tight, light-resistant container at 15 to 30 °C.
 Keep out of reach of children and Store away from food stuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: 0.1mg/m3

Personal protective equipments ensure before use -

Pictograms









Respiratory protection: Dust respirator. Be sure to use an approved/certified respirator or equivalent. A self contained breathing apparatus should be used to avoid inhalation of the product.

Hand protection

: Gloves, Lab coat

Eye protection

: Splash goggles

Skin protection

: Splash goggles, Full suit & Boots.

Exposure control Ventilation: 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 below the exposure limit.

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MATERIAL SAFETY DATA SHEET

Product

: AMLODIPINE BESYLATE

Date of Issue

: 26.05.2014

Revision No: 06

Hygiene Measure

after working with substance.

: Immediately change contaminated clothing. Wash hands and face

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odour

: White or almost white powder and odorless.

Vapour pressure

: Not applicable

Vapor density

: Not applicable

Flash point

: Not applicable : 199-201 °C

Viscosity **Boiling Point** : Not applicable : Not Applicable

Melting range Specific gravity

: Not applicable

Auto-ignition

: Not applicable

Relative density

: Not applicable

Flammability

: Not applicable

Solubility

: Freely soluble in methanol. Sparingly soluble in alcohol.

10. STABILITY AND REACTIVITY

Stability

Incompatibilities / Condition to avoid Hazardous decomposition products

: Stable under recommended storage conditions.

: No data available. Avoid exposure to light and heat.

: when heated to decomposition, emits dangerous fumes. Large amounts: not applicable

: No data available.

Hazardous reactions

Hazardous polymerization

: Will not occur.

11. **TOXICOLOGICAL INFORMATION**

Oral Toxicity

: Not expected to be toxic following ingestion of recommended maximum

daily dose.

Sensitization

: No data available. : No data available

Inhalation Toxicity Genetic Toxicity

: No data available.

Skin effects

: Irritation might occur following direct contact.

Carcinogenicity

: No data available.

Eve Effects

: Irritation might occur following direct contact with eyes.

Reproductive Effects: No data available.

Target Organ Effects: No data available.

Toxicity data

ORL-RAT LD 50

: 393 mg/kg

SCU-RAT LD 50

: No data available.

ORL- MICE LD 50

: No data available.

SCU-MUS LD 50 : No data available.

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Date of Issue

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Revision No: 06

ENVIRONMENTAL / ECOLOGICAL INFORMATION 12.

Summary

: The environmental characteristics of this mixture have not been fully

evaluated. Releases to the environment should be avoided.

Ecotoxicity

: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This material and its container must be disposed of as hazardous waste.

avoid release to the environment.

Degradability: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are as toxic as the product itself.

13. **DISPOSAL CONSIDERATION**

Disposal Recommendations

: Dispose material as Hazardous Waste and as per applicable

local, state and federal regulatory procedures and laws.

Regulatory Requirements

: Dispose material as Hazardous Waste and as per

applicable local, state and federal regulatory procedures and laws.

TRANSPORT INFORMATION (UN Classifications and Labeling) 14.

ADR Packing group - III

ADR Class - 9

Additional Pictograms -

ADR

IATA

GHS









Other information

: Environmentally Hazardous substance, solid, N.O.S.

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MATERIAL SAFETY DATA SHEET

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: AMLODIPINE BESYLATE

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: 26.05.2014

Revision No: 06

15. REGULATORY INFORMATION

Labeling according to EEC directives

: As mentioned in section 14 of this document.

National legistalation regulation any other regulatory information

: No data available.

16. OTHER INFORMATION

Therapeutic category of material

: Antihypertensive.

Reference:

1. Globally Harmonized System of Classification and Labelling Of Chemicals (GHS)

2. Safety data sheet from EDQM (dated 27.06.2013 version 7.0)

3. Material safety data sheet from USP USA

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Prepared by Safety

Approved by Unit QA head

Noted by

26.05.2011