

Version	Revision Date:	SDS Number:	Date of last issue: 06.12.2018
6.0	18.09.2019	20769	Date of first issue: 24.08.2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifier****TENORMINTABLETS**

Details of the supplier of the safety data sheet

: ASTRAZENECA PTY LTD
 PO Box 131
 66 Talavera Rd, North Ryde
 NSW 2113
 AUSTRALIA
 +61 2 9978 3500

Emergency Telephone
 +44 (0) 1235 239 670

SafetyDataSheets.AlderleyPark@astrazeneca.com

Alternative Names

Atenolol tablets
 Tenormin 25 mg, 50 mg and 100 mg tablets
 CAS No. : Not applicable

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : management of hypertension, angina pectoris and dysrhythmias

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Reproductive toxicity : Category 2

Effects on or via lactation

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H361 Suspected of damaging fertility or the unborn child.
 H362 May cause harm to breast-fed children.

Precautionary statements : **Prevention:**
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust or mist.
 P264 Wash skin thoroughly after handling.
 P281 Use personal protective equipment as required.

Response:
 P308 + P313 IF exposed or concerned: Get medical advice/attention.

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Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

May cause lowering of blood pressure.

See Section 11.

The product may form flammable dust clouds in air, if dust from crushed tablets is allowed to accumulate.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Atenolol	29122-68-7	23 -24
Magnesium stearate	557-04-0	2.3 -2.4
Celluloses	9004-34-6	1.4 -1.8

SECTION 4. FIRST AID MEASURES

- If inhaled : Remove patient from exposure.
Obtain medical attention if ill effects occur.
- In case of skin contact : Wash skin with soap and water.
- In case of eye contact : Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 10 minutes.
Obtain medical attention if ill effects remain.
- If swallowed : Wash out mouth with water and give 200-300ml of water to drink.
Obtain medical attention if ill effects occur.
Do NOT induce vomiting as a First-Aid measure.
- Most important symptoms and effects, both acute and delayed : Refer to sections 2 and 11
Suspected of damaging fertility or the unborn child.
May cause harm to breast-fed children.
- Notes to physician : Symptomatic treatment and supportive therapy as indicated.
For further information consult the prescribing information.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : water spray, foam, dry powder or CO2.
- Unsuitable extinguishing media : Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
- Specific hazards during firefighting : If involved in a fire, it may burn and emit noxious and toxic fumes.
- Special protective equipment : A self contained breathing apparatus and suitable protective

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for firefighters clothing should be worn in fire conditions.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure suitable personal protection during removal of spillages.
Avoid dispersal of dust in the air.
- Environmental precautions : Prevent entry into drains, sewers or watercourses.
- Methods and materials for containment and cleaning up : Avoid dust generation.
Transfer spilled tablets to a suitable container for disposal.
Wash the spillage area with water.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with skin and eyes.
Wash hands after use.
Minimize dust generation and accumulation.
The product may form flammable dust clouds in air, if dust from crushed tablets is allowed to accumulate.
- Conditions for safe storage : Keep container tightly closed.
Keep away from moisture.
Protect from light.
- Recommended storage temperature : < 25 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Atenolol	29122-68-7	TWA	0.5 mg/m ³	COM; HYG
Magnesium stearate	557-04-0	TWA	10 mg/m ³	AU OEL
Further information: This value is for inhalable dust containing no asbestos and < 1% crystalline silica				
		TWA (Inhalable fraction)	10 mg/m ³	ACGIH
		TWA (Respirable fraction)	3 mg/m ³	ACGIH
Celluloses	9004-34-6	TWA	10 mg/m ³	AU OEL
Further information: This value is for inhalable dust containing no asbestos and < 1% crystalline silica				
		TWA	10 mg/m ³	ACGIH

- Engineering measures** : The specific controls will depend on local circumstances and should be based on the risk assessment. Appropriate controls to reduce exposure may include engineering

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controls, for example ventilation, procedural controls and the use of personal protection equipment.

Prevent entry into drains, sewers or watercourses.

Personal protective equipment

- Respiratory protection : Use an air fed hood if the risk assessment does not support the selection of other protection.
- Eye protection : Use safety glasses to protect against direct contact with the product if the risk assessment does not support the selection of other protection.
- Skin and body protection : Use impervious clothing to protect against direct contact with the product or for repeated, excessive handling use full chemical protective suit if the risk assessment does not support the selection of other protection. Use impervious protective gloves to protect against direct contact with the product. If the product is dissolved or wetted use a glove material that is resistant to the solvent/liquid.
- Protective measures : Decisions about whether the use of personal protective equipment (PPE) is appropriate as part of the control strategy should be based on the workplace risk assessment and should take account of local legislative requirements for selection and use. There are multiple factors that will affect the specific requirements such as amount and concentration of the material, duration of exposure, frequency of exposure, external environmental conditions, the task, the user etc. All the information above should not be used in isolation and should be considered in the context of the workplace risk assessment on a case by case basis.

The recommended personal protective equipment (PPE) is based on preventing the potential adverse health effects from exposure to the active pharmaceutical ingredient (API). The risk of exposure to the API in the formulation/product needs to be taken into consideration.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : film-coated tablets
- Colour : white, or, orange
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available
- Melting point/range : No data available

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Boiling point/boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Relative vapour density : Not applicable

Relative density : No data available

Density : No data available

Solubility(ies)
Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No known reactivity hazard under normal conditions.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : None known.

Conditions to avoid : No conditions producing hazardous situations known.

Incompatible materials : None known.

Hazardous decomposition products : No hazardous decomposition products are known.

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

Not classified based on available information.

Components:

Atenolol:

Acute oral toxicity : No evident toxicity in rats at a dose of: 3,000 mg/kg

Acute inhalation toxicity : Remarks: No information available on acute toxicity.
May cause effects as described under single exposure.(STOT)

Acute dermal toxicity : Remarks: No information available.

11.2 Skin corrosion/irritation

Not classified based on available information.

Components:

Atenolol:

Remarks : Repeated and/or prolonged contact may cause irritation.

11.3 Serious eye damage/eye irritation

Not classified based on available information.

Components:

Atenolol:

Remarks : Unlikely to cause eye irritation.

11.4 Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Atenolol:

Remarks : It is not a skin sensitiser in vivo.
Unlikely to cause skin sensitisation.

Chronic toxicity

11.5 Germ cell mutagenicity

Not classified based on available information.

Components:

Atenolol:

Germ cell mutagenicity - Assessment : There is no evidence of genotoxic potential in in vitro and in vivo tests.

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11.6 Carcinogenicity

Not classified based on available information.

Components:

Atenolol:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

11.7 Reproductive toxicity

Suspected of damaging fertility or the unborn child.
May cause harm to breast-fed children.

Components:

Atenolol:

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments., Studies in animals have shown that high doses produce embryo/foetotoxic effects.
Effects on or via lactation

11.8 STOT - single exposure

Not classified based on available information.

Components:

Atenolol:

Exposure routes : Inhalation, Oral
Remarks : Atenolol reduces heart rate and lowers blood pressure.
May cause dizziness, fatigue, coldness of the fingers and toes, and difficulty in breathing.

11.9 STOT - repeated exposure

Not classified based on available information.

Components:

Atenolol:

Exposure routes : Inhalation, Oral
Remarks : Atenolol reduces heart rate and lowers blood pressure.

11.10 Aspiration toxicity

Not classified based on available information.

Components:

Atenolol:

No information available.

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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Atenolol:**

- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 1,800 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 33.4 mg/l
Exposure time: 48 h
Method: (EPA 600/4-90/027)
- EC50 (Daphnia magna (Water flea)): 180 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 110 mg/l
Exposure time: 96 h
Test Type: growth rate
Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): 10 mg/l
Exposure time: 96 h
Test Type: growth rate
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 3.2 mg/l
Exposure time: 32 d
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 8.87 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Persistence and degradability**Components:****Atenolol:**

- Biodegradability : Result: not rapidly degradable
- aerobic
Biodegradation: 50 %
Exposure time: 21.3 d
Method: OECD Test Guideline 308
- anaerobic
Biodegradation: 50 %

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Exposure time: 24.4 d
Method: OECD Test Guideline 308

Remarks: There is no evidence of photodegradation in water.

BOD/COD : BOD: 0,11 (BOD5)

Bioaccumulative potential

Components:

Atenolol:

Bioaccumulation : Remarks: The substance has low potential for bioaccumulation.

Mobility in soil

Components:

Atenolol:

Mobility : Remarks: The substance has high mobility in soil.
Water solubility ≥ 1 mg/l.

Distribution among environmental compartments : Koc: 85.11 - 489.78 mg/l
Method: OECD Test Guideline 106

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal should be in accordance with local, state or national legislation.
Waste, even small quantities, should never be poured down drains, sewers or water courses.
Dispose of contents/ container to an approved incineration plant.

Contaminated packaging : Empty container will retain product residue. Observe all hazard precautions.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

In order to comply with legal duties it is necessary to consult local and national legislation.

Standard for the Uniform Scheduling of Medicines and Poisons : No poison schedule number allocated

Prohibition/Licensing Requirements : There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

The components of this product are reported in the following inventories:

REACH : Not in compliance with the inventory

DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.
Atenolol

AICS : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : Not On TSCA Inventory

SECTION 16. OTHER INFORMATION

Further information

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Other information : New significant SHE information:
2. New classification
11. Reproductive toxicity: New classification
Minor changes:
2
3
4
9
11
12
13

