

Version 2.0 Revision Date: 19.01.2018 SDS Number: 13231 Date of last issue: -
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

ATACAND PLUS TABLETS

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

Atacand HCT 8/12.5mg, 16/12.5mg, 32/12.5mg and 32/25mg
Candesartan Cilexetil and Hydrochlorothiazide tablets
CAS No. : Not applicable

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

Use of the Substance/Mixture : antihypertensive agent

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Reproductive toxicity : Category 1A

Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Kidney, Heart, Blood)

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H360 May damage fertility or the unborn child.
H373 May cause damage to organs (Kidney, Heart, Blood) through prolonged or repeated exposure if swallowed.

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/ fume/ gas/ mist/ vapours/ spray.
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.

Hazardous components which must be listed on the label:

Candesartan Cilexetil

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

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Candesartan Cilexetil	145040-37-5	6 -12
Hydrochlorothiazide	58-93-5	5 -10

SECTION 4. FIRST AID MEASURES

- If inhaled : Remove patient from exposure.
Obtain medical attention if ill effects occur.
- In case of skin contact : Remove contaminated clothing.
Wash skin with soap and water.
If symptoms (irritation or blistering) occur obtain medical attention.
- 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 swallowed : Wash out mouth with water and give 200-300ml of water to drink.
Do NOT induce vomiting as a First-Aid measure.
Obtain medical attention if ill effects occur.
- Most important symptoms and effects, both acute and delayed : Refer to sections 2 and 11
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure if swallowed.
- Notes to physician : Symptomatic treatment and supportive therapy as indicated.
For further detail consult the prescribing information.
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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : water spray, foam, dry powder or CO₂.

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- 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 for firefighters : A self contained breathing apparatus and suitable protective 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 : 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 and dry.
- Recommended storage temperature : < 30 °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
Candesartan Cilexetil	145040-37-5	TWA	0.001 mg/m ³	COM; HYG
Hydrochlorothiazide	58-93-5	TWA	0.5 mg/m ³	COM; HYG

- 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 controls, for example ventilation, procedural controls and the use of personal protection equipment.
- Prevent entry into drains, sewers or watercourses.

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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 : tablets
- Colour : 8/12.5mg : white 16/12.5mg : peach 32/12.5mg : yellow
32/25 mg: light pink
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available
- Melting point/range : No data available
- Initial boiling point and boiling range : Not applicable

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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

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Solubility(ies)

 Water solubility : No data available

 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 : No data available

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:

Candesartan Cilexetil:

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

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.

Hydrochlorothiazide:

Acute oral toxicity : Remarks: Low acute oral toxicity.

Acute inhalation toxicity : Remarks: 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:

Candesartan Cilexetil:

Remarks: No evidence of irritant effects from normal handling and use.

Hydrochlorothiazide:

Remarks: Unlikely to cause skin irritation.

11.3 Serious eye damage/eye irritation

Not classified based on available information.

Components:

Candesartan Cilexetil:

Remarks: No evidence of irritant effects from normal handling and use.

Hydrochlorothiazide:

Remarks: No evidence of irritant effects from normal handling and use.

11.4 Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

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Respiratory sensitisation

Not classified based on available information.

Components:**Candesartan Cilexetil:**

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

Hydrochlorothiazide:

Remarks: No information available.

Chronic toxicity**11.5 Germ cell mutagenicity**

Not classified based on available information.

Components:**Candesartan Cilexetil:**

Germ cell mutagenicity - Assessment : The substance is not considered to be genotoxic.

Hydrochlorothiazide:

Germ cell mutagenicity - Assessment : Some evidence of genotoxicity in vitro but not considered to present a mutagenic hazard to man.

11.6 Carcinogenicity

Not classified based on available information.

Components:**Candesartan Cilexetil:**

Carcinogenicity - Assessment : The substance is not considered to be carcinogenic.

Hydrochlorothiazide:

Carcinogenicity - Assessment : It is unlikely to present a carcinogenic hazard to man.

11.7 Reproductive toxicity

May damage fertility or the unborn child.

Components:**Candesartan Cilexetil:**

Reproductive toxicity - Assessment : Positive evidence of adverse effects on development from human epidemiological studies., Foetal and neonatal toxicity in babies born to women receiving treatment during pregnancy has been reported., Studies in animals have shown that high doses produce embryo/foetotoxic effects.

Hydrochlorothiazide:

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Reproductive toxicity - Assessment : There is no evidence of reprotoxicity in animal tests., Substances with the ability to reduce blood pressure may adversely affect embryo-foetal development., The substance passes into breast milk

11.8 STOT - single exposure

Not classified based on available information.

Components:

Candesartan Cilexetil:

Exposure routes: Oral

Remarks: May cause lowering of blood pressure.

Hydrochlorothiazide:

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Remarks: May cause irritation to the upper respiratory tract.

Exposure routes: Oral

Remarks: May cause gastrointestinal irritation, nausea, dizziness and weakness.

11.9 STOT - repeated exposure

May cause damage to organs (Kidney, Heart, Blood) through prolonged or repeated exposure if swallowed.

Components:

Candesartan Cilexetil:

Exposure routes: Oral

Target Organs: Kidney, Heart, Blood

Assessment: May cause damage to organs through prolonged or repeated exposure.

Remarks: These effects are derived from studies in animals.

Hydrochlorothiazide:

Exposure routes: Oral

Target Organs: Kidney

Remarks: Ingestion studies in animals have shown that repeated doses produce adverse effects.

11.10 Aspiration toxicity

Not classified based on available information.

Components:

Candesartan Cilexetil:

No data available

Hydrochlorothiazide:

No information available.

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SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Candesartan Cilexetil:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.017 mg/l
Exposure time: 96 H
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.016 mg/l
Exposure time: 48 H
Method: OECD Test Guideline 202
- Toxicity to algae : ErC50 (Chlorella pyrenoidosa (aglae)): > 0.012 mg/l
Exposure time: 72 H
Method: OECD Test Guideline 201

Ecotoxicology Assessment

- Acute aquatic toxicity : Harmful to aquatic life.
- Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

Hydrochlorothiazide:

- Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l
Method: OECD Test Guideline 201
- EC50 (Chlorella vulgaris (Fresh water algae)): 34.35 mg/l
Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 10 mg/l
Exposure time: 30 d
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 100 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Persistence and degradability**Components:****Candesartan Cilexetil:**

- Biodegradability : Result: not rapidly degradable

Hydrochlorothiazide:

- Biodegradability : Remarks: The substance is partially biodegradable in water.

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Bioaccumulative potential**Components:****Candesartan Cilexetil:**

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

Hydrochlorothiazide:

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

Mobility in soil**Components:****Candesartan Cilexetil:**

Mobility : Remarks: Water solubility < 1 mg/l.

Distribution among environmental compartments : Medium: There is no evidence of inhibition to the aerobic treatment process at a concentration (mg/l) of 1000.

Hydrochlorothiazide:

Mobility : Remarks: The substance is soluble in water. The substance has high mobility in soil.

Distribution among environmental compartments : Remarks: No information available.

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.
Normal waste disposal is via incineration operated by an accredited disposal contractor.

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 : No poison schedule number allocated
Scheduling of Medicines and
Poisons

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 listed

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

Candesartan Cilexetil 145040-37-5

AICS : Not listed

ENCS : Not listed

ISHL : Not listed

IECSC : Not listed

TCSI : Not listed

TSCA : Not On TSCA Inventory

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); EC_x - Concentration associated with x% response; EL_x - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErC_x - Concentration associated with x% growth rate response; ERG - Emergency Response

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Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Further information

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Other information : The Safety Data Sheet has been updated to the SAP EH&S Standard template., This update affects all Sections of the Safety Data Sheet.

Date format : dd.mm.yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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