

Emergency Telephone +44 (0) 1235 239 670

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

CASODEX 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

SafetyDataSheets.AlderleyPark@astrazeneca.com

Alternative Names

Bicalutamide tablets

CAS No. Not applicable

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

Use of the Substance/Mixture treatment of prostate cancer

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Carcinogenicity Category 2

Reproductive toxicity Category 1B

Long-term (chronic) aquatic

hazard

Category 1

GHS label elements

Hazard pictograms





Signal word Danger

Hazard statements H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

Response:

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



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attention.

P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards which do not result in classification

May cause anti-androgenic effects.

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)
Bicalutamide	90357-06-5	39
Celluloses	9004-34-6	1.9 -2
Magnesium stearate	557-04-0	1.2

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 causing cancer.

May damage fertility or the unborn child.

Notes to physician : Symptomatic treatment and supportive therapy as indicated.

For further detail 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.



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Special protective equipment :

for firefighters

A self contained breathing apparatus and suitable protective

clothing should be worn in fire conditions.

Prevent fire extinguishing water from contaminating surface

water or the ground water system.

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.

See Section 8.

Environmental precautions : Prevent entry into drains.

Collect spillage.

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. Avoid release to the environment.

See section 13.

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.

Recommended storage

temperature

< 30 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis	
		(Form of	parameters /		
		exposure)	Permissible		
			concentration		
Bicalutamide	90357-06-5	TWA	0.01 mg/m3	COM; HYG	
Celluloses	9004-34-6	TWA	10 mg/m3	AU OEL	
	Further information: This value is for inhalable dust containing no				
	asbestos and < 1% crystalline silica				
		TWA	10 mg/m3	ACGIH	
Magnesium stearate	557-04-0	TWA	10 mg/m3	AU OEL	
	Further information: This value is for inhalable dust containing no				
	asbestos and < 1% crystalline silica				
		TWA	10 mg/m3	ACGIH	



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(Inhalable fraction)		
TWA (Respirable fraction)	3 mg/m3	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 controls, for example ventilation, procedural controls and the use of personal protection equipment.

Prevent entry into drains, sewers or watercourses. See Section 6 for environmental precautions.

Personal protective equipment

Respiratory protection : Use an a

Use an air fed hood for occasional exposures or for repeated exposures use a self-contained breathing apparatus 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.



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Appearance : coated tablets

Colour : white

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

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 : Not explosive

Oxidizing properties : Not applicable

SECTION 10. STABILITY AND REACTIVITY



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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.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

Not classified based on available information.

Components:

Bicalutamide:

Acute oral toxicity : No evident toxicity in rats at a dose of: 2,000 mg/kg

Assessment: The substance or mixture has no acute oral

toxicity

Acute inhalation toxicity : Remarks: May cause effects as described under repeated

exposure.(STOT)

Acute dermal toxicity : Remarks: No information available.

11.2 Skin corrosion/irritation

Not classified based on available information.

Components:

Bicalutamide:

Remarks : Non-irritant in vivo.

Unlikely to cause skin irritation.

11.3 Serious eye damage/eye irritation

Not classified based on available information.

Components:

Bicalutamide:

Remarks : Non-irritant in vivo.

Unlikely to cause eye irritation.

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:

Bicalutamide:

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:

Bicalutamide:

Assessment

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

11.6 Carcinogenicity

Suspected of causing cancer.

Components:

Bicalutamide:

Carcinogenicity -

: Limited evidence of carcinogenicity in animal studies

Assessment

11.7 Reproductive toxicity

May damage fertility or the unborn child.

Components:

Bicalutamide:

Reproductive toxicity -

Assessment

Clear evidence of adverse effects on sexual function and fertility, based on animal experiments., Clear evidence of

adverse effects on development, based on animal

experiments., May cause anti-androgenic effects., In male rats reproductive performance was reduced but was reversible after cessation of dosing., Evidence of altered sexual development was observed in the male offspring.

11.8 STOT - single exposure

Not classified based on available information.

Components:

Bicalutamide:

Remarks No specific effects reported.

11.9 STOT - repeated exposure

Not classified based on available information.



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Components:

Bicalutamide:

Remarks : May cause anti-androgenic effects, including breast swelling

and pain, hot flushes and pruritus.

11.10 Aspiration toxicity

Not classified based on available information.

Components:

Bicalutamide:

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Bicalutamide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 7.1 mg/l

Exposure time: 96 H Test Type: static test

NOEC (Oncorhynchus mykiss (rainbow trout)): 7.1 mg/l

Exposure time: 96 H

LC50 (Lepomis macrochirus (Bluegill sunfish)): > 4.4 mg/l

Exposure time: 96 H Test Type: static test

NOEC (Lepomis macrochirus (Bluegill sunfish)): 4.4 mg/l

Exposure time: 96 H

Toxicity to algae : NOEC (green algae): 1.1 mg/l

NOEC (blue-green algae): 1.1 mg/l

Toxicity to fish (Chronic

toxicity)

: NOEC (Pimephales promelas (fathead minnow)): 0.01 mg/l

Exposure time: 124 d

Method: OECD Test Guideline 210

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 0.56 mg/l

Exposure time: 21 d

M-Factor (Chronic aquatic

toxicity)

10

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l

Exposure time: 3 H

Remarks: There is no evidence of inhibition to the aerobic

treatment process at a concentration of 100 mg/l.



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Persistence and degradability

Components:

Bicalutamide:

Biodegradability : aerobic

Concentration: 100 mg/l Chemical oxygen demand Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301C

Result: not rapidly degradable

Remarks: There is no evidence of hydrolysis in water.

Bioaccumulative potential

Components:

Bicalutamide:

Bioaccumulation : Remarks: The substance has low potential for

bioaccumulation.

Mobility in soil

Components:

Bicalutamide:

Mobility : Remarks: The substance has moderate mobility in

groundwater.

The substance has moderate mobility in soil.

Water solubility >= 1 mg/l.

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.

Dispose of contents/ container to an approved incineration

plant.

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

hazard precautions.



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SECTION 14. TRANSPORT INFORMATION

ICAO/IATA

UN No. 3077

Proper Shipping Name : Environmentally hazardous substance, solid, n.o.s. (BICALUTAMIDE)

Class : 9

Packing Group : III

Environmental hazards : Environmentally hazardous

IMO/IMDG

UN No. 3077

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(BICALUTAMIDE)

Class : 9

Packing Group : III

Marine pollutant : Marine pollutant

ADR

UN No. 3077

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(BICALUTAMIDE)

Class : 9
Label(s) : 9
Packing Group : III

Environmental hazards : Environmentally hazardous

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



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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.

Bicalutamide

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

Revision Date : 30.11.2018

Other information : New significant SHE information:

2. New classification

3. Composition/information on ingredients8. New Occupational Exposure Limit Value

Minor changes:

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

AU OEL : Australia. Workplace Exposure Standards for Airborne

Contaminants.

ACGIH / TWA : 8-hour, time-weighted average

AU OEL / TWA : Exposure standard - time weighted average

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; COM - In-house occupational exposure limit;



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CPR - Controlled Products Regulations; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan): ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HYG - Analytical method for occupational exposure monitoring; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; 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; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); 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; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; (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; Sen - Capable of causing respiratory sensitization; Sk - Can be absorbed through skin, thus contributing to systemic effects: STEL - Short-term exposure limit 15-minutes time-weighted average: TLV - Threshold Limit Value (ACGIH); TLV-C - Threshold Limit Value Ceiling limit (ACGIH); TSCA - Toxic Substances Control Act (United States); TWA - Long-term exposure limit 8h time-weighted average; 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

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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