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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

## TOPROL XL TABLETS

Details of the supplier of the safety data sheet : ASTRAZENECA PTY LTD      Emergency Telephone  
PO Box 131      +44 (0) 1235 239 670  
Alma Road, North Ryde  
NSW 2113  
AUSTRALIA  
+61 2 9978 3500  
  
SafetyDataSheets.AlderleyPark@astrazeneca.com

### Alternative Names

Metoprolol succinate CR Tablets  
Metoprolol succinate extended-release tablets  
Betaloc ZOK tablets  
CAS No. : Not applicable

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

Use of the Substance/Mixture : Beta-adrenergic receptor blocking agent used as an anti-hypertensive and anti-anginal.


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## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Skin corrosion/irritation : Category 2  
Reproductive toxicity : Category 1A  
Effects on or via lactation :  
Acute aquatic toxicity : Category 3  
Chronic aquatic toxicity : Category 3

### GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H315 Causes skin irritation.  
H360 May damage fertility or the unborn child.  
H362 May cause harm to breast-fed children.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.

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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.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves.  
 P281 Use personal protective equipment as required.

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P308 + P313 IF exposed or concerned: Get medical advice/attention.  
 P332 + P313 If skin irritation occurs: Get medical advice/attention.  
 P362 Take off contaminated clothing and wash before reuse.

**Disposal:**

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

**Other hazards which do not result in classification**

May cause eye irritation.  
 May form explosible dust-air mixture if dispersed.  
 See Section 11.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Concentration (% w/w)
Metoprolol succinate	98418-47-4	>= 20 - < 30

**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 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 ill effects occur.

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  
 Causes skin irritation.  
 May damage fertility or the unborn child.

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Notes to physician : May cause harm to breast-fed children.  
: 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.  
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.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid dispersal of dust in the air.  
Ensure suitable personal protection during removal of spillages.  
See Section 8.  
Environmental precautions : Prevent entry into drains, sewers or watercourses.  
Collect spillage.  
Methods and materials for containment and cleaning up : Transfer spilled tablets to a suitable container for disposal.  
Wash the spillage area with water.  
Avoid release to the environment.  
See section 13.

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## 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

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

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Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Metoprolol succinate	98418-47-4	TWA	0.5 mg/m <sup>3</sup>	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.  
See Section 6 for environmental precautions.

### 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 : coated tablets

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Colour : white to off-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 : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

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 : No data available

    Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No known reactivity hazard under normal conditions.

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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

### 11.1.1 Acute toxicity

Not classified based on available information.

#### **Product:**

Acute oral toxicity : Remarks: Low acute toxicity.

Acute inhalation toxicity : Remarks: May cause effects as described under single exposure.(STOT)

Acute dermal toxicity : Remarks: No information available.

#### **Components:**

##### **Metoprolol succinate:**

Acute oral toxicity : LD50 Oral (Rat): 2,000 - 3,750 mg/kg

Acute inhalation toxicity : Remarks: May cause effects as described under single exposure.(STOT)

Acute dermal toxicity : Remarks: No information available.

### 11.1.2 Skin corrosion/irritation

Causes skin irritation.

#### **Product:**

Remarks: Will cause skin irritation.

#### **Components:**

##### **Metoprolol succinate:**

Result: Irritating to skin.

### 11.1.3 Serious eye damage/eye irritation

Not classified based on available information.

#### **Product:**

Remarks: No information available.

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**Components:**

**Metoprolol succinate:**

Remarks: May cause eye irritation.  
May cause excessive watering of the eye (lachrymation).

#### 11.1.4 Respiratory or skin sensitisation

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Product:**

Remarks: No information available.

**Components:**

**Metoprolol succinate:**

Remarks: Rare cases of skin sensitisation have been reported.

#### 11.1.5 Germ cell mutagenicity

Not classified based on available information.

**Product:**

Germ cell mutagenicity - Assessment : No information available.

**Components:**

**Metoprolol succinate:**

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

#### 11.1.6 Carcinogenicity

Not classified based on available information.

**Product:**

Carcinogenicity - Assessment : No information available.

**Components:**

**Metoprolol succinate:**

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

#### 11.1.7 Reproductive toxicity

May damage fertility or the unborn child.  
May cause harm to breast-fed children.

**Product:**

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Reproductive toxicity - Assessment : No information available.

## **Components:**

### **Metoprolol succinate:**

Reproductive toxicity - Assessment : Studies in animals have shown that repeated doses produce embryo/foetotoxic effects., By analogy with other beta-blockers:, 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.  
Effects on or via lactation

### **11.1.8 STOT - single exposure**

Not classified based on available information.

#### **Product:**

Remarks: No information available.

#### **Components:**

### **Metoprolol succinate:**

Exposure routes: Inhalation, Oral  
Remarks: May cause lowering of blood pressure (resulting in dizziness, fatigue and headache), change in heart rhythm and gastrointestinal disorders.

### **11.1.9 STOT - repeated exposure**

Not classified based on available information.

#### **Product:**

Remarks: No information available.

#### **Components:**

### **Metoprolol succinate:**

Remarks: May cause effects as described under single exposure.(STOT)

### **11.1.10 Aspiration toxicity**

Not classified based on available information.

#### **Components:**

### **Metoprolol succinate:**

No information available.

#### **Further information**

#### **Product:**

Remarks: This health hazard assessment is based on a consideration of the composition of this product.



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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

#### Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.  
Remarks: No information on this formulation.  
The following information refers to Metoprolol succinate

#### Components:

#### Metoprolol succinate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l  
Exposure time: 96 H  
Test Type: static test  
Method: OECD Test Guideline 203  
  
NOEC (Oncorhynchus mykiss (rainbow trout)): 32 mg/l  
Exposure time: 96 H  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 120 mg/l  
Exposure time: 48 H  
Test Type: static test  
Method: OECD Test Guideline 202  
  
NOEC (Daphnia magna (Water flea)): 30 mg/l  
Exposure time: 48 H  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 58.3 mg/l  
Exposure time: 72 H  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201  
  
NOEC (Selenastrum capricornutum (green algae)): 7.5 mg/l  
Exposure time: 72 H  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

Toxicity to bacteria : EC50 (Sewage sludge organisms): > 100 mg/l  
Exposure time: 3 H  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

#### Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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## Persistence and degradability

### Components:

#### Metoprolol succinate:

Biodegradability : Remarks: Not rapidly degradable.

## Bioaccumulative potential

### Components:

#### Metoprolol succinate:

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

## Mobility in soil

### Components:

#### Metoprolol succinate:

Mobility : Remarks: Water solubility  $\geq$  1 mg/l.

Distribution among environmental compartments : Remarks: No information available.

## Other adverse effects

No data available

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## 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

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.

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.

Metoprolol succinate 98418-47-4

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; COM - In-house occupational exposure limit; 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,

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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

## Further information

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., New significant SHE information:., 1. Product identifier, Minor changes:., 11, 12, 13

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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