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medicine

### SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier · Trade name: atenolol · Article number: 109402, 100156 · CAS Number: 29122-68-7 · EC number: 249-451-7 · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Pharmaceutical intermediate · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: FAGRON a.s. Holická 1098/31m 779 00 Olomouc Česká republika · Further information obtainable from: Tel.: +420 585 222 590 info@fagron.cz · 1.4 Emergency telephone number: Toxikologické informační středisko, Na Bojišti 1. 128 08 Praha 2 tel.: +420 224 919 293, +420 224 915 402 (nepřetržitá lékařská služba), e-mail:tis.cuni@cesnet.cz **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 Acute Tox. 4 H302 Harmful if swallowed. Eve Irrit. 2 H319 Causes serious eve irritation. Carc. 2 H351 Suspected of causing cancer. Lact. H362 May cause harm to breast-fed children. STOT SE 3 H336 May cause drowsiness or dizziness. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation. Hazard pictograms GHS07 GHS08 · Signal word Warning · Hazard statements H302 Harmful if swallowed. ... Contd. on pag personalizina

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H319 Causes ser	ious eye irritation.			
H351 Suspected	of causing cancer.			
H362 May cause	harm to breast-fed children.			
H336 May cause	drowsiness or dizziness.			
· Precautionary statements				
P260	Do not breathe dusts or mists.			
P263	Avoid contact during pregnancy and while nursing.			
P280	Wear protective gloves/protective clothing/eye protection/face protection/			
	hearing protection.			
P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact			
	lenses, if present and easy to do. Continue rinsing.			
P405	Store locked up.			
P501	Dispose of contents/container in accordance with local/regional/national/			
	international regulations.			
· 2.3 Other hazard	S			
· Results of PBT a	and vPvB assessment			

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

# **SECTION 3: Composition/information on ingredients**

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- CAS: 29122-68-7 atenolol
- · Identification number(s)
- EC number: 249-451-7

### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. • After swallowing: Call for a doctor immediately.

- · 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed

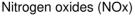
No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

- $\cdot$  5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released:
- Carbon monoxide (CO)





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### - 5.3 Advice for firefighters

- Protective equipment:
- Wear fully protective suit.

Wear self-contained respiratory protective device.

### **SECTION 6: Accidental release measures**

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to item 13.
- · 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

• 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- $\cdot$  7.3 Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see item 7.
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- **Respiratory protection:** Filter P2
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.



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### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### · Eye protection:

Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and cl	hemical properties
· 9.1 Information on basic physical and o	chemical properties
· General Information	
· Appearance: Form:	Crystalling powder
Colour:	Crystalline powder White
· Odour:	Nearly odourless
· Odour threshold:	Not determined.
· pH-value:	4
· Change in condition	
Melting point/freezing point:	146–155°C
Initial boiling point and boiling range	: Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gas):	Product is not flammable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
· Evaporation rate	Not applicable.
<ul> <li>Solubility in / Miscibility with</li> </ul>	
water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· 9.2 Other information	No further relevant information available.



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### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- $\cdot$  Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity

Harmful if swallowed.

#### · LD/LC50 values relevant for classification:

- Oral LD50 2000 mg/kg (rat)
- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity
- Suspected of causing cancer.
- Reproductive toxicity
- May cause harm to breast-fed children.
- STOT-single exposure
- May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- $\cdot$  12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.

· **vPvB:** Not applicable.



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• **12.6 Other adverse effects** No further relevant information available.

## **SECTION 13: Disposal considerations**

### · 13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

### · European waste catalogue

HP4 Irritant - skin irritation and eye damage

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP6 Acute Toxicity

HP7 Carcinogenic

### · Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

# **SECTION 14: Transport information**

· 14.1 UN-Number · ADR, IMDG, IATA	not regulated	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, IMDG, IATA</li> </ul>	not regulated	
<ul> <li>14.3 Transport hazard class(es)</li> </ul>		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· 14.4 Packing group · ADR, IMDG, IATA	not regulated	
· 14.5 Environmental hazards:	Not applicable.	
<ul> <li>14.6 Special precautions for user</li> </ul>	Not applicable.	
• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.		
· UN "Model Regulation":	not regulated	

# **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- Named dangerous substances ANNEX I Substance is not listed.
   DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II Substance is not listed.
   REGULATION (EU) 2019/1148
   Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) Substance is not listed.

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(Contd. of page 6) • Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed. • Regulation (EC) No 273/2004 on drug precursors Substance is not listed. • Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Substance is not listed. • 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		
<b>SECTION 16: Other information</b> This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.		
<ul> <li>Department issuing SDS: Fagron Česká republika</li> <li>Contact: msds@fagron.cz</li> <li>Abbreviations and acronyms: <ul> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> <li>Acute Tox. 4: Acute toxicity – Category 4</li> <li>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</li> <li>Carc. 2: Carcinogenicity – Category 2</li> <li>Lact: Reproductive toxicity – effects on or via lactation</li> <li>STOT SE 3: Specific target organ toxicity (single exposure) – Category 3</li> </ul> </li> </ul>		

