



CONSEIL DE L'EUROPI

Bambuterol impurity mixture

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 03/04/2023 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Product name Product code	: Mixture : Bambuterol impurity mixture : 201900130
1.2. Relevant identified uses of the substar	nce or mixture and uses advised against
1.2.1. Relevant identified uses Main use category	: The product is intended for research, analysis and scientific education.
Use of the substance/mixture Function or use category	For professional use onlyLaboratory chemicals
1.2.2. Uses advised against Restrictions on use	: Do not use : Ingestion, Inhalation, Dermal
1.3. Details of the supplier of the safety dat	a sheet
European Directorate for the Quality of Medicines & EDQM, Council of Europe 7, Allée Kastner, CS3002 F– 67081 Strasbourg France T +33(0)388412035 - F +33(0)388412771 sds@edqm.eu - www.edqm.eu	

1.4. Emergency telephone number

Emergency number

: +33(0)390215608

SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Acute toxicity (oral), Category 4 H302 Specific target organ toxicity – Repeated exposure, Category 2 H373 Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412 Full text of H- and EUH-statements: see section 16 Adverse physicochemical, human health and environmental effects

Expert judgement and weight of evidence determination.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



: H302 - Harmful if swallowed.

: Warning

Signal word (CLP) Contains

Hazard statements (CLP)

Precautionary statements (CLP)

: P260 - Do not breathe dust/vapours.

1-hydroxyethyl]-1,3-phenylene bis(dimethylcarbamate)

H412 - Harmful to aquatic life with long lasting effects.

3-[(1RS)-2-(tert-butylamino)-1-hydroxyethyl]-5-hydroxyphenyl dimethylcarbamate; 5-[(1RS)-

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

H373 - May cause damage to organs through prolonged or repeated exposure.

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Labelling according to: exemption for inner packaging	unwell. P314 - Get medical advice/attention if you feel unwell. g where the contents do not exceed 10ml
Hazard pictograms (CLP)	
Hazardous ingredients	GHS08 : 3-[(1RS)-2-(tert-butylamino)-1-hydroxyethyl]-5-hydroxyphenyl dimethylcarbamate; 5-[(1RS)- 1-hydroxyethyl]-1,3-phenylene bis(dimethylcarbamate)
2.3. Other hazards	

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
5-[(1RS)-1-hydroxyethyl]-1,3-phenylene bis(dimethylcarbamate)	-	68,1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)
3-[(1RS)-2-(tert-butylamino)-1-hydroxyethyl]-5- hydroxyphenyl dimethylcarbamate	-	31,9	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT RE 2, H373 Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after skin contact First-aid measures after eye contact	Wipe off as much as possible (using a clean, soft, absorbent material).Rinse eyes with water as a precaution.
4.2. Most important symptoms and effective states a	ffects, both acute and delayed
No additional information available	

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	

Suitable extinguishing media

: Extinguishing blanket.

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5.2. Special hazards arising from the s	ubstance or mixture
Fire hazard	: See Heading 2.2.
5.3. Advice for firefighters	
Firefighting instructions	: Use extinguishing media appropriate for surrounding fire.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective e	equipment and emergency procedures
6.1.1. For non-emergency personnel Emergency procedures	: Avoid all unnecessary exposure.
6.1.2. For emergency responders No additional information available	
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for containn	nent and cleaning up
No additional information available	
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
No additional information available	
7.2. Conditions for safe storage, includ	ding any incompatibilities

No additional information available

7.3. Specific end use(s)

See Heading 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Keep in a well-ventilated room. Both local exhaust and general room ventilation are usually required.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

Skin and body protection: Lab coat

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

9.1. Information on basic physical and ch	emical properties	
Physical state	: Solid	
Colour	: Not available	
Odour	: Not available	
Odour threshold	: Not available	
Melting point	: Not available	
Freezing point	: Not available	
Boiling point	: Not available	
Flammability	: Not available	
Explosive limits	: Not applicable	
Lower explosion limit	: Not applicable	
Upper explosion limit	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: Not available	
рН	: Not available	
pH solution	: Not available	
Viscosity, kinematic	: Not applicable	
Solubility	: Not available	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Vapour pressure	: Not available	
Vapour pressure at 50°C	: Not available	
Density	: Not available	
Relative density	: Not available	
Relative vapour density at 20°C	: Not applicable	
Particle size	: Not available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

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9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
Stable under normal conditions.
10.2. Chemical stability
No additional information available
10.3. Possibility of hazardous reactions
None known.
10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
None under normal use. See Section 7.
10.6. Hazardous decomposition products
When heated to decomposition, emits dangerous fumes.

SECTION 11: Toxicological info	ormation
11.1. Information on hazard classe	s as defined in Regulation (EC) No 1272/2008
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Harmful if swallowed. : Not classified : Not classified
Bambuterol impurity mixture	
ATE CLP (oral)	500 mg/kg bodyweight
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure	 Not classified May cause damage to organs through prolonged or repeated exposure.
3-[(1RS)-2-(tert-butylamino)-1-hyd	roxyethyl]-5-hydroxyphenyl dimethylcarbamate
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
11.2. Information on other hazards	

No additional information available

SECTION 12: Ecological informat	tion	
12.1. Toxicity		
Ecology - general	: Presents no specific risk for the environment.	

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Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic)	Not classifiedHarmful to aquatic life with long lasting effects.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ
14.1. UN number or ID number		
Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Not applicable	Not applicable	Not applicable
No supplementary information available		

Overland transport

Not applicable

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Transport by sea

Not applicable

Air transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not applicable.

POP Regulation (Persistent Organic Pollutants)

Not applicable.

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
H302	Harmful if swallowed.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H412	Harmful to aquatic life with long lasting effects.	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Acute Tox. 4 (Oral)	H302	Calculation method	
STOT RE 2	H373	Calculation method	
Aquatic Chronic 3	H412	Calculation method	

Safety Data Sheet (SDS), EU

DISCLAIMER OF LIABILITY The EDQM has created this SDS as a downstream user for regulatory compliance to rules applicable to chemicals only. This article is intended only for small-volume laboratory analysis and other routine testing prescribed in the pharmacopoeia or EDQM study protocol, under controlled conditions and by professionals only. Any other use of this article or the SDS information is the sole responsibility of the user. This substance is present in articles in quantities totalling under 10 kg per year. There is no human or environmental exposure under intended and foreseeable conditions of use. The user has the responsibility for handling, storage, use conditions and disposal of this article and for any use of the information in this SDS. The information has been obtained from suppliers and is without any warranty, express or implied, regarding its correctness. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the article.