

# Medicines & Healthcare products Regulatory Agency

**British** Pharmacopoeia

**Quality standards** 

# **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

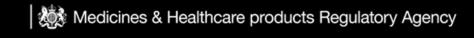
Revision date 29-Apr-2024

**Revision Number** 1

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

| 1.1. Product identifier  |  |  |  |
|--|--|--|--|
| Product Code(s)  | CAT 1309   |  |  |
| Product Name   | Salbutamol Impurity Standard                     |  |  |
| Form   | Not applicable                                   |  |  |
| Pure substance/mixture   | Mixture  |  |  |
| 1.2. Relevant identified uses of the   | substance or mixture and uses advised against    |  |  |
| Recommended use  | Laboratory use                                   |  |  |
| Uses advised against   | No information available                         |  |  |
| 1.3. Details of the supplier of the sat  | fety data sheet                                  |  |  |
| Supplier   |  |  |  |
| British Pharmacopoeia Commission<br>MHRA<br>10 South Colonnade<br>Canary Wharf<br>London E14 4PU<br>United Kingdom |  |  |  |
| Tel : +44 (0)20 3080 6561<br>eMail: bpcrs@mhra.gov.uk  |  |  |  |
| For further information, please contact  | _  |  |  |
| E-mail address   | bpcrs@mhra.gov.uk                                |  |  |
| 1.4. Emergency telephone number  |  |  |  |
| Emergency Telephone  | +44 (0)20 3080 6561 (Monday - Friday: 8am - 5pm) |  |  |
| Emergency Telephone - §45 - (EC)1272/2008  |  |  |  |
| Europe   | 112  |  |  |
| Austria  | No information available                         |  |  |

Bulgaria





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| Croatia                             |  |
|-------------------------------------|--|
| Cyprus                              |  |
| Croatia<br>Cyprus<br>Czech Republic |  |
| Denmark                             |  |
| France                              |  |
| Hungary                             |  |
| Ireland                             |  |
| Italy                               |  |
| Lithuania                           |  |
| Luxembourg                          |  |
| Netherlands                         |  |
| Norway                              |  |
| Portugal                            |  |
| Romania                             |  |
| Slovakia                            |  |
| Slovenia                            |  |
| Spain                               |  |
| Sweden                              |  |
| Switzerland                         |  |

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to

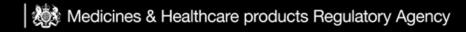
Regulation (EC) No. 1272/2008 [CLP]

| Acute toxicity - Oral             | Category 4 - (H302) |
|-----------------------------------|---------------------|
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Skin sensitisation                | Category 1 - (H317) |
| Chronic aquatic toxicity          | Category 4 - (H413) |

### 2.2. Label elements

Contains Salbutamol sulfate; Salbutamol impurity D







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### Signal word

Warning

### **Hazard statements**

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H413 - May cause long lasting harmful effects to aquatic life

### Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves and eye/face protection

P337 + P313 - If eye irritation persists: Get medical advice/attention

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

### 2.3. Other hazards

No information available.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

| Endocrine Disruptor Information This proc | luct does not contain any known or suspe | cted endocrine disruptors.         |
|---|--|------------------------------------|
| Chemical name                             | EU - REACH (1907/2006) - Article 59(1)   | EU - REACH (1907/2006) - Endocrine |
|   | - Candidate List of Substances of Very   | Disruptor Assessment List of       |
|   | High Concern (SVHC) for Authorisation    | Substances                         |
| Salbutamol sulfate                        | -  | -                                  |
| Salbutamol impurity D                     | -  | -                                  |

# SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name | Weight-% | REACH registration | EC No (EU | Classification according | Specific      | M-Factor | M-Factor    |
|---------------|----------|--------------------|-----------|--------------------------|---------------|----------|-------------|
|               |          | number             | Index No) | to Regulation (EC) No.   | concentration |          | (long-term) |
|               |          |                    |           | 1272/2008 [CLP]          | limit (SCL)   |          |             |





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| Salbutamol sulfate<br>51022-70-9 | 80 - 100 | - | 256-916-8 | Acute Tox. 4 (H302)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1 (H317)<br>Aquatic Chronic 4<br>(H413) |  |  |
|----------------------------------|----------|---|-----------|--|--|--|
| Salbutamol impurity<br>D<br>-    | 1 - <3   | - | -         | Acute Tox. 4 (H302)<br>Eye Irrit. 2 (H319)<br>Skin Sens. 1 (H317)<br>Aquatic Chronic 4<br>(H413) |  |  |

### Full text of H- and EUH-phrases: see section 16

### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

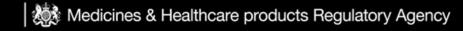
| Chemical name                    | Oral LD50 mg/kg |                   | Inhalation LC50 - 4<br>hour - dust/mist - mg/L | Inhalation LC50 - 4<br>hour - vapour - mg/L | Inhalation LC50 - 4<br>hour - gas - ppm |
|----------------------------------|-----------------|-------------------|--|---|---|
| Salbutamol sulfate<br>51022-70-9 | 2500            | No data available | No data available                              | No data available                           | No data available                       |

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

| General advice | Show this safety data sheet to the doctor in attendance.   |
|----------------|--|
| Inhalation     | Remove to fresh air.   |
| Eye contact    | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open<br>while rinsing. Do not rub affected area. Get medical attention if irritation develops and<br>persists. |





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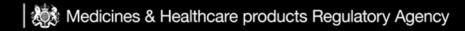
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| Skin contact  | Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. |  |  |  |
|---|---|--|--|--|
| Ingestion   | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.                        |  |  |  |
| Self-protection of the first aider  | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).                                     |  |  |  |
| 4.2. Most important symptoms and effects, both acute and delayed                |   |  |  |  |
| Symptoms  | Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.   |  |  |  |
| 4.3. Indication of any immediate medical attention and special treatment needed |   |  |  |  |
| Note to doctors   | May cause sensitisation in susceptible persons. Treat symptomatically.  |  |  |  |

| SECTION 5: Firefighting m                                      | easures  |
|--|--|
| 5.1. Extinguishing media                                       |  |
| Suitable Extinguishing Media                                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| Large Fire   | CAUTION: Use of water spray when fighting fire may be inefficient.   |
| Unsuitable extinguishing media                                 | Do not scatter spilled material with high pressure water streams.  |
| 5.2. Special hazards arising from th                           | e substance or mixture   |
| Specific hazards arising from the chemical                     | Product is or contains a sensitiser. May cause sensitisation by skin contact.  |
| 5.3. Advice for firefighters                                   |  |
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures





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| Personal precautions                                      | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |  |  |
|---|--|--|--|
| Other information   | Refer to protective measures listed in Sections 7 and 8.   |  |  |
| For emergency responders                                  | Use personal protection recommended in Section 8.  |  |  |
| 6.2. Environmental precautions                            |  |  |  |
| Environmental precautions                                 | See Section 12 for additional Ecological Information.  |  |  |
| 6.3. Methods and material for containment and cleaning up |  |  |  |
| Methods for containment                                   | Prevent further leakage or spillage if safe to do so.  |  |  |
| Methods for cleaning up                                   | Take up mechanically, placing in appropriate containers for disposal.  |  |  |
| Prevention of secondary hazards                           | Clean contaminated objects and areas thoroughly observing environmental regulations.   |  |  |
| 6.4. Reference to other sections                          |  |  |  |
| Reference to other sections                               | See section 8 for more information. See section 13 for more information.   |  |  |

# SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| Advice on safe handling               | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. |
|---------------------------------------|---|
| General hygiene considerations        | Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.   |
| 7.2. Conditions for safe storage, inc | cluding any incompatibilities   |
| Storage Conditions                    | Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach   |





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of children.

### 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

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

#### 8.1. Control parameters

**Exposure Limits** 

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

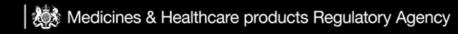
#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

| Derived No Effect Level (DNEL)    | No information available. |
|-----------------------------------|---------------------------|
| Predicted No Effect Concentration | No information available. |
| (PNEC)                            |                           |

8.2. Exposure controls

| Personal protective equipment |  |
|-------------------------------|--|
| Eye/face protection           | Avoid contact with eyes. Wear safety glasses with side shields (or goggles).   |
| Hand protection               | Wear suitable gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective butyl rubber gloves. |
| Skin and body protection      | Wear suitable protective clothing.   |
| Respiratory protection        | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.                   |





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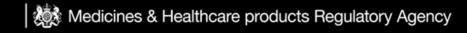
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| General hygiene considerations  | Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. |
|---------------------------------|---|
| Environmental exposure controls | Do not allow into any sewer, on the ground or into any body of water.   |

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

| 9.1. Information on basic physical a   | Ind chemical properties   |                          |
|--|---------------------------|--------------------------|
| Physical state                         | Solid                     |                          |
| Appearance                             | Solid                     |                          |
| Colour                                 | white                     |                          |
| Odour                                  | No information available. |                          |
| Odour threshold                        | No information available  |                          |
|  |                           |                          |
| Property                               | Values                    | Remarks • Method         |
| Melting point / freezing point         | No data available         | None known               |
| Initial boiling point and boiling rang |                           | None known               |
| Flammability                           | No data available         | None known               |
| Flammability Limit in Air              |                           | None known               |
| Upper flammability or explosive        | No data available         |                          |
| limits                                 |                           |                          |
| Lower flammability or explosive        | No data available         |                          |
| limits                                 |                           |                          |
| Flash point                            | No data available         | None known               |
| Autoignition temperature               | No data available         | None known               |
| Decomposition temperature              |                           | None known               |
| рН                                     | No data available         | None known               |
| pH (as aqueous solution)               | No data available         | No information available |
| Kinematic viscosity                    | No data available         | None known               |
| Dynamic viscosity                      | No data available         | None known               |
| Water solubility                       | No data available         | None known               |
| Solubility(ies)                        | No data available         | None known               |
| Partition coefficient                  | No data available         | None known               |
| Vapour pressure                        | No data available         | None known               |
| Relative density                       | No data available         | None known               |
| Bulk density                           | No data available         |                          |
| Liquid Density                         | No data available         |                          |
| Relative vapour density                | No data available         | None known               |
| Particle characteristics               |                           |                          |





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| Particle Size              | No information available |
|----------------------------|--------------------------|
| Particle Size Distribution | No information available |

### 9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

### SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

No information available.

10.2. Chemical stability

Stability

Stable under normal conditions.

Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

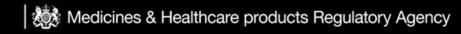
10.5. Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008





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#### Information on likely routes of exposure

#### **Product Information**

| Inhalation                | Specific test data for the substance or mixture is not sucilable. May eques irritation of   |
|---------------------------|---|
| Innalation                | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.  |
| Eye contact               | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.   |
| Skin contact              | May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause irritation. Prolonged contact may cause redness and irritation. |
| Ingestion                 | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed. (based on components).   |
| Symptoms related to the n | hysical chemical and toxicological characteristics  |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Itching. Rashes. Hives. May cause redness and tearing of the eyes.

Numerical measures of toxicity No information available

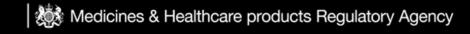
### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

| ATEmix (oral)                 | 1,895.00 mg/kg  |
|-------------------------------|-----------------|
| ATEmix (dermal)               | 99,999.00 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm   |
| ATEmix (inhalation-dust/mist) | 99,999.00 mg/l  |
| ATEmix (inhalation-vapour)    | 99,999.00 mg/l  |

#### **Component Information**

| Chemical name      | Oral LD50              | Dermal LD50 | Inhalation LC50 |
|--------------------|------------------------|-------------|-----------------|
| Salbutamol sulfate | = 1950 mg/kg ( Mouse ) |             |                 |
|                    | > 2500 mg/kg (Rat)     |             |                 |





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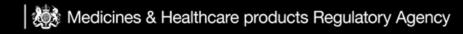
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| Delayed and immediate effects as v      | vell as chronic effects from short and long-term exposure                              |  |
|---|--|--|
| Skin corrosion/irritation               | May cause skin irritation.   |  |
| Serious eye damage/eye irritation       | Classification based on data available for ingredients. Causes serious eye irritation. |  |
| Respiratory or skin sensitisation       | May cause an allergic skin reaction.   |  |
| Germ cell mutagenicity                  | No information available.  |  |
| Carcinogenicity                         | No information available.  |  |
| Reproductive toxicity                   | No information available.  |  |
| STOT - single exposure                  | No information available.  |  |
| STOT - repeated exposure                | No information available.  |  |
| Aspiration hazard                       | No information available.  |  |
| 11.2. Information on other hazards      |  |  |
| 11.2.1. Endocrine disrupting properties |  |  |
| Endocrine disrupting properties         | No information available.  |  |
| 11.2.2. Other information               |  |  |
| Other adverse effects                   | No information available.  |  |





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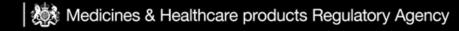
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| SECTION 12: Ecological information                              |   |  |
|---|---|--|
| 12.1. Toxicity  |   |  |
| Ecotoxicity   | May cause long lasting harmful effects to aquatic life.                     |  |
| Unknown aquatic toxicity  | Contains 0 % of components with unknown hazards to the aquatic environment. |  |
| 12.2. Persistence and degradability                             | <u>,                                     </u>                               |  |
| Persistence and degradability                                   | No information available.   |  |
| 12.3. Bioaccumulative potential                                 |   |  |
| Bioaccumulation   | No information available.   |  |
| 12.4. Mobility in soil  |   |  |
| Mobility in soil  | No information available.   |  |
| 12.5. Results of PBT and vPvB assessment                        |   |  |
| PBT and vPvB assessment   | No information available.   |  |
| 12.6. Endocrine disrupting properties                           |   |  |
| Endocrine disrupting properties                                 | No information available.   |  |
| <u>12.7. Other adverse effects</u><br>No information available. |   |  |

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

| Waste from residues/unused | Dispose of in accordance with local regulations. Dispose of waste in accordance with |
|----------------------------|--|
| products                   | environmental legislation.   |





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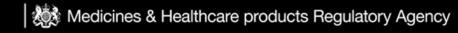
**Contaminated packaging** 

Do not reuse empty containers.

# **SECTION 14: Transport information**

### ΙΑΤΑ

| 14.1 UN number or ID number       | Not regulated                 |
|-----------------------------------|-------------------------------|
| 14.2 UN proper shipping name      | Not regulated                 |
| 14.3 Transport hazard class(es)   | Not regulated                 |
| 14.4 Packing group                | Not regulated                 |
| 14.5 Environmental hazards        | Not applicable                |
| 14.6 Special precautions for user |                               |
| Special Provisions                | None                          |
| •                                 |                               |
| IMDG                              |                               |
| 14.1 UN number or ID number       | Not regulated                 |
| 14.2 UN proper shipping name      | Not regulated                 |
| 14.3 Transport hazard class(es)   | Not regulated                 |
| 14.4 Packing group                | Not regulated                 |
| 14.5 Marine pollutant             | Not applicable                |
| 14.6 Special precautions for user |                               |
| Special Provisions                | None No information available |
| 14.7 Maritime transport in bulk   | No information available      |
| according to IMO instruments      |                               |
| -                                 |                               |
| RID                               |                               |
| 14.1 UN number or ID number       | Not regulated                 |
| 14.2 UN proper shipping name      | Not regulated                 |
| 14.3 Transport hazard class(es)   | Not regulated                 |
| 14.4 Packing group                | Not regulated                 |
| 14.5 Environmental hazards        | Not applicable                |
| 14.6 Special precautions for user |                               |
| Special Provisions                | None                          |
|                                   |                               |
| <u>ADR</u>                        |                               |
| 14.1 UN number or ID number       | Not regulated                 |
| 14.2 UN proper shipping name      | Not regulated                 |
| 14.3 Transport hazard class(es)   | Not regulated                 |
| 14.4 Packing group                | Not regulated                 |
| 14.5 Environmental hazards        | Not applicable                |
| 14.6 Special precautions for user |                               |
| Cussial Drevialana                |                               |
| Special Provisions                | None                          |





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# **SECTION 15: Regulatory information**

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

National regulations

#### Germany

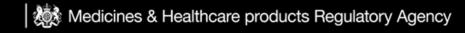
Water hazard class (WGK)

slightly hazardous to water (WGK 1)

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

**European Union** 





# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

#### Revision date 29-Apr-2024

Revision Number 1

### CAT 1309 - Salbutamol Impurity Standard

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

Persistent Organic Pollutants Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

International Inventories Complies under research and development exemption or is regulated by a different TSCA government agency. DSL/NDSL Contact supplier for inventory compliance status Contact supplier for inventory compliance status **EINECS/ELINCS** ENCS Contact supplier for inventory compliance status **IECSC** Contact supplier for inventory compliance status KECL Contact supplier for inventory compliance status Contact supplier for inventory compliance status PICCS Contact supplier for inventory compliance status AIIC

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

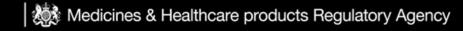
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances





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**AICS** - Australian Inventory of Chemical Substances

#### 15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment is not required for this substance

# **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed

### H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H413 - May cause long lasting harmful effects to aquatic life

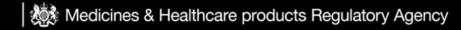
#### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: Exposure controls/personal protection

| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
|---------|-----------------------------|------|----------------------------------|
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |

| Classification procedure  |                    |  |
|---|--------------------|--|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |  |
| Acute oral toxicity   | Calculation method |  |
| Acute dermal toxicity   | Calculation method |  |
| Acute inhalation toxicity - gas                                 | Calculation method |  |
| Acute inhalation toxicity - Vapour                              | Calculation method |  |
| Acute inhalation toxicity - dust/mist                           | Calculation method |  |
| Skin corrosion/irritation                                       | Calculation method |  |
| Serious eye damage/eye irritation                               | Calculation method |  |
| Respiratory sensitisation                                       | Calculation method |  |
| Skin sensitisation  | Calculation method |  |
| Mutagenicity  | Calculation method |  |
| Carcinogenicity   | Calculation method |  |
| Reproductive toxicity   | Calculation method |  |
| STOT - single exposure  | Calculation method |  |
| STOT - repeated exposure  | Calculation method |  |
| Acute aquatic toxicity  | Calculation method |  |





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| Chronic aquatic toxicity | Calculation method |
|--------------------------|--------------------|
| Aspiration hazard        | Calculation method |
| Ozone                    | Calculation method |

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization

### **Revision date**

29-Apr-2024

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. British Pharmacopoeia Commission Office makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be heldresponsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.