WITEGA Laboratorien Berlin-Adlershof GmbH



Safety Data Sheet

according to UK REACH Regulation

Beta agonists Mix; various concentrations in Ethanol (Mix I)

Revision date: Product code: BA-MIX017AMP Page 1 of 12

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

1.1. Product identifier

Beta agonists Mix; various concentrations in Ethanol (Mix I)

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

Use of the substance/mixture

Reference standard for analysis.

1.3. Details of the supplier of the safety data sheet

Company name: WITEGA Laboratorien Berlin-Adlershof GmbH

Street: James-Franck-Strasse 4

Place: D-12489 Berlin

Telephone: +493063922001 Telefax: +493063922007

e-mail: witega@witega.de
Internet: www.witega.de

1.4. Emergency telephone +493063922001

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word: Danger

Pictograms:





Hazard statements

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P262 Do not get in eyes, on skin, or on clothing.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P381 In case of leakage, eliminate all ignition sources.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures



according to UK REACH Regulation

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Hazardous components

| CAS No | Chemical name | Quantity | | | | | |
|--------------|--|--------------|--|--|--|--|--|
| | EC No Index No REACH No | | | | | | |
| | Classification (GB CLP Regulation) | | | | | | |
| 64-17-5 | ethanol; ethyl alcohol | 95 - < 100 % | | | | | |
| | 200-578-6 603-002-00-5 | | | | | | |
| | Flam. Liq. 2; H225 | | | | | | |
| 21898-19-1 | Clenbuterol hydrochloride | < 1 % | | | | | |
| | Acute Tox. 3; H301 | | | | | | |
| 1435935-00-4 | Clenisopenterol hydrochloride | | | | | | |
| | Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2B, STOT SE 3; H302 H315 H320 H335 | | | | | | |
| 37162-89-3 | Hydroxymethylclenbuterol hydrochloride | < 1 % | | | | | |
| | Acute Tox. 4; H302 | | | | | | |
| 54240-36-7 | Mabuterol hydrochloride | < 1 % | | | | | |
| | Acute Tox. 4; H302 | | | | | | |
| 54238-51-6 | Mapenterol hydrochloride | < 1 % | | | | | |
| | Skin Irrit. 2, Eye Irrit. 2B, STOT SE 3; H315 H320 H335 | | | | | | |
| 41937-02-4 | Brombuterol | < 1 % | | | | | |
| | | | | | | | |
| 78982-84-0 | Bromchlorbuterol hydrochloride | < 1 % | | | | | |
| | Acute Tox. 4; H302 | | | | | | |
| 56776-01-3 | Tulobuterol hydrochloride | < 1 % | | | | | |
| | Acute Tox. 4; H302 | | | | | | |
| 54239-39-3 | Cimbuterol | < 1 % | | | | | |
| | | | | | | | |
| 1613439-57-8 | Carbuterol acetate sesquihydrate | < 1 % | | | | | |
| | Skin Irrit. 2, Eye Irrit. 2B, STOT SE 3; H315 H320 H335 | | | | | | |
| 54239-37-1 | Cimaterol | < 1 % | | | | | |
| | Acute Tox. 4; H302 | | | | | | |
| 37158-47-7 | Clenpenterol hydrochloride | | | | | | |
| | Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2B, STOT SE 3; H302 H315 H320 H335 | | | | | | |
| 38339-11-6 | Clenproperol | < 1 % | | | | | |
| | Skin Irrit. 2, Eye Irrit. 2B, STOT SE 3; H315 H320 H335 | | | | | | |
| 579-56-6 | erythro-Isoxsuprine hydrochloride | < 1 % | | | | | |
| | Acute Tox. 4, Aquatic Acute 1; H302 H400 | | | | | | |
| | Orciprenaline acetate hemihydrate | < 1 % | | | | | |
| | Skin Irrit. 2, Eye Irrit. 2B, STOT SE 3; H315 H320 H335 | | | | | | |
| 90274-24-1 | Ractopamine hydrochloride | < 1 % | | | | | |
| | Acute Tox. 4, Acute Tox. 4, Skin Sens. 1; H332 H302 H317 | | | | | | |
| 1346746-81-3 | Phenylethanolamine A | < 1 % | | | | | |
| | Acute Tox. 4; H302 | | | | | | |
| 1944-12-3 | Fenoterol hydrobromide | < 1 % | | | | | |
| | Acute Tox. 4; H302 | | | | | | |
| 18559-94-9 | Salbutamol | < 1 % | | | | | |



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| | Acute Tox. 4; H302 | |
|--------------|--|-------|
| 119520-06-8 | Zilpaterol hydrochloride | < 1 % |
| | Acute Tox. 4, Acute Tox. 4, Acute Tox. 4; H332 H312 H302 | |
| | Terbutaline acetate hemihydrate | < 1 % |
| | Repr. 2, Resp. Sens. 1, Skin Sens. 1; H361 H334 H317 | |
| 1435934-75-0 | Clencyclohexerol hydrochloride | < 1 % |
| | Acute Tox. 4; H302 | |
| 94749-08-3 | Salmeterol xinafoate | < 1 % |
| | | |

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



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Specific Conc. Limits, M-factors and ATE

| CAS No | E. Limits, M-factors and ATE EC No Chemical name | Quantity |
|----------------|---|--------------|
| CAS NO | Specific Conc. Limits, M-factors and ATE | Quantity |
| 64-17-5 | | 95 - < 100 % |
| 04-17-5 | | 95 - < 100 % |
| 24000 40 4 | inhalation: LC50 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg | 4.0/ |
| 21898-19-1 | Clenbuterol hydrochloride | < 1 % |
| | oral: LD50 = 147 mg/kg | 4.04 |
| 1435935-00-4 | Clenisopenterol hydrochloride | < 1 % |
| | oral: ATE = 500 mg/kg | |
| 37162-89-3 | Hydroxymethylclenbuterol hydrochloride | < 1 % |
| | oral: ATE = 500 mg/kg | |
| 54240-36-7 | Mabuterol hydrochloride | < 1 % |
| | oral: ATE = 500 mg/kg | |
| 41937-02-4 | Brombuterol | < 1 % |
| | inhalation: Data lacking (gases); dermal: Data lacking; oral: Data lacking | |
| 78982-84-0 | Bromchlorbuterol hydrochloride | < 1 % |
| | oral: ATE = 500 mg/kg | |
| 56776-01-3 | Tulobuterol hydrochloride | < 1 % |
| | oral: LD50 = 850 mg/kg | |
| 54239-39-3 | Cimbuterol | < 1 % |
| | inhalation: Data lacking (gases); dermal: Data lacking; oral: Data lacking | |
| 1613439-57-8 | Carbuterol acetate sesquihydrate | < 1 % |
| | oral: LD50 = 3453 mg/kg | |
| 54239-37-1 | Cimaterol | < 1 % |
| | oral: ATE = 500 mg/kg | |
| 37158-47-7 | Clenpenterol hydrochloride | < 1 % |
| | oral: ATE = 500 mg/kg | |
| 579-56-6 | erythro-Isoxsuprine hydrochloride | < 1 % |
| 0.000 | oral: LD50 = 1750 mg/kg | 1 70 |
| | Orciprenaline acetate hemihydrate | < 1 % |
| | oral: LD50 = 5538 mg/kg | 1 70 |
| 90274-24-1 | Ractopamine hydrochloride | < 1 % |
| 90214-24-1 | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: ATE = 500 | × 1 70 |
| 10.107.10.01.0 | mg/kg | : 4.0/ |
| 1346746-81-3 | Phenylethanolamine A | < 1 % |
| | oral: ATE = 500 mg/kg | |
| 1944-12-3 | Fenoterol hydrobromide | < 1 % |
| | oral: LD50 = 1600 mg/kg | |
| 18559-94-9 | Salbutamol | < 1 % |
| | oral: LD50 = 660 mg/kg | |
| 119520-06-8 | Zilpaterol hydrochloride | < 1 % |
| | inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 1325 mg/kg | |
| | Terbutaline acetate hemihydrate | < 1 % |
| | oral: LD50 = 8700 mg/kg | |
| 1435934-75-0 | Clencyclohexerol hydrochloride | < 1 % |
| | oral: ATE = 500 mg/kg | |

SECTION 4: First aid measures

4.1. Description of first aid measures



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General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Remove contaminated, saturated clothing immediately. Subsequently wash off with: Water and soap

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Get immediate medical advice/attention.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps.

4.2. Most important symptoms and effects, both acute and delayed

No data available

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet. Foam. Dry extinguishing powder. Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Pyrolysis products, toxic. In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protection equipment. Do not breathe gas/fumes/vapour/spray.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Take up dust-free and set down dust-free.

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Advice on general occupational hygiene

Use personal protection equipment.



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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Avoid: UV-radiation/sunlight

Further information on storage conditions

storage temperature: 2-8°C

7.3. Specific end use(s)

none

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m³ | fibres/ml | Category | Origin |
|---------|-----------|------|-------|-----------|-----------|--------|
| 64-17-5 | Ethanol | 1000 | 1920 | | TWA (8 h) | WEL |

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection

Hand protection

Wear suitable gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Skin protection

lab coat

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: colourless

Boiling point or initial boiling point and No data available

boiling range:

Flammability: No data available Lower explosion limits: No data available Upper explosion limits: No data available Flash point: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available pH-Value: No data available No data available Water solubility:

Solubility in other solvents

No data available

Partition coefficient n-octanol/water:

Vapour pressure:

Density:

No data available

No data available

No data available





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Relative vapour density:

No data available

9.2. Other information

Information with regard to physical hazard classes

Self-ignition temperature

Solid: No data available
Gas: No data available

Other safety characteristics

Evaporation rate: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with: Oxidising agent, Alkali (lye), Etchant and acids

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Do not expose to temperatures exceeding 50 °C/122 °F.

10.5. Incompatible materials

Oxidising agent, Alkali (Iye), Etchant and acids

10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.



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| CAS No | Chemical name | | | | | |
|------------------|--------------------------------|---------------------------|------|---------|--------|--------|
| | Exposure route | Dose | : | Species | Source | Method |
| 64-17-5 | ethanol; ethyl alcohol | • | | | • | |
| | oral | LD50 620 mg/kg | 0 | Rat | IUCLID | |
| | inhalation (4 h) vapour | 1 | mg/l | Rat | RTECS | |
| 21898-19-1 | Clenbuterol hydrochloride | 9 | | | | |
| | oral | LD50 147 mg/kg | | Mouse | | |
| 1435935-00- 4 | Clenisopenterol hydrochl | oride | | | | |
| | oral | ATE 500 mg/kg | | | | |
| 37162-89-3 | Hydroxymethylclenbutero | l hydrochloride | | | | |
| | oral | ATE 500 mg/kg | | | | |
| 54240-36-7 | Mabuterol hydrochloride | | | | | |
| | oral | ATE 500 mg/kg | | | | |
| 41937-02-4 | Brombuterol | | | | | |
| | oral | Data lacking | | | | |
| | dermal | Data lacking | | | | |
| | inhalation | Data lacking | | | | |
| 78982-84-0 | Bromchlorbuterol hydrochloride | | | | | |
| | oral | ATE 500 mg/kg | | | | |
| 56776-01-3 | Tulobuterol hydrochloride | Tulobuterol hydrochloride | | | | |
| | oral | LD50 850 mg/kg | | Rat | | |
| 54239-39-3 | Cimbuterol | | | | | |
| | oral | Data lacking | | | | |
| | dermal | Data lacking | | | | |
| | inhalation | Data lacking | | | | |
| 1613439-57- 8 | Carbuterol acetate sesqu | ihydrate | | | | |
| | oral | LD50 345 mg/kg | 3 | Rat | | |
| 54239-37-1 | Cimaterol | | | | | |
| | oral | ATE 500 mg/kg | | | | |
| 37158-47-7 | Clenpenterol hydrochloric | | | | | |
| | oral | ATE 500 mg/kg | | | | |
| 579-56-6 | erythro-Isoxsuprine hydro | | | | • | |
| | oral | LD50 175 mg/kg | 0 | Rat | | |
| | Orciprenaline acetate he | | | | | |



according to UK REACH Regulation

| | oral | LD50 mg/kg | 5538 | Rat | |
|------------------|-------------------------------|---------------|----------|-----|--|
| 90274-24-1 | Ractopamine hydrochlori | de | | | |
| | oral | ATE mg/kg | 500 | | |
| | inhalation vapour | ATE | 11 mg/l | | |
| | inhalation dust/mist | ATE | 1,5 mg/l | | |
| 1346746-81- 3 | Phenylethanolamine A | | | | |
| | oral | ATE mg/kg | 500 | | |
| 1944-12-3 | Fenoterol hydrobromide | | | | |
| | oral | LD50 mg/kg | 1600 | Rat | |
| 18559-94-9 | Salbutamol | | | | |
| | oral | LD50 mg/kg | 660 | Rat | |
| 119520-06-8 | Zilpaterol hydrochloride | | | | |
| | oral | LD50 mg/kg | 1325 | Rat | |
| | dermal | LD50 mg/kg | >2000 | Rat | |
| | inhalation vapour | ATE | 11 mg/l | | |
| | inhalation (4 h) dust/mist | LC50 | >5 mg/l | Rat | |
| | Terbutaline acetate hemi | hydrate | | | |
| | oral | LD50 mg/kg | 8700 | Rat | |
| 1435934-75- 0 | Clencyclohexerol hydrocl | nloride | | | |
| | oral | ATE mg/kg | 500 | | |

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

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.

Specific effects in experiment on an animal

No data available

SECTION 12: Ecological information

12.1. Toxicity



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Based on available data, the classification criteria are not met.

No data available

| CAS No | Chemical name | | | | | |
|------------|--------------------------|---------------------------|-----------|---------------|--------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 64-17-5 | ethanol; ethyl alcohol | | | | | |
| | Acute crustacea toxicity | EC50 9268 - 14221 mg/l | 48 h | Daphnia magna | IUCLID | |
| 41937-02-4 | Brombuterol | | | | | |
| | Aquatic toxicity | Data lacking | | | | |
| 54239-39-3 | Cimbuterol | | | | | |
| | Aquatic toxicity | Data lacking | | | | |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|---------|------------------------|---------|
| 64-17-5 | ethanol; ethyl alcohol | -0,31 |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Contaminated packaging

This material and its container must be disposed of as hazardous waste.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3





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Classification code: F1

Special Provisions: 274 601 640C

Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640C

Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards



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ENVIRONMENTALLY HAZARDOUS:

14.6. Special precautions for user

No transport as bulk according to IBC Code.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

Nο

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 40

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

| пии | nigniy haminable liquid and vapour. |
|------|--|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H320 | Causes eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H400 | Very toxic to aquatic life. |
| | |

Further Information

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. The substances are only for R&D. Do not use as a drug, in household or other applications.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)