

1. Identification of the substance/preparation and of the company/undertaking

Product details**Trade name:** Salbutamate 10%**Art.-No.** 5024970000**Application of the substance / the preparation:** For increased rate of mass gain, increased feed efficiency, improved carcass dressing percentage in cattle and pigs.**Manufacturer/Supplier:**Biesterfeld International GmbH
Ferdinandstr. 41
D-20095 Hamburg
Deutschland**Biesterfeld****Animate**
Animal Health**Local Distributor:**Animate Animal Health (Pty) Ltd
43 Hornbill Road
Rooihuiskraal, 0157
Tel: +2712-661-3485
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Mail: info@animate.co.za**Further information obtainable from:**

For Chap. 13 Disposal consideration and Chap. 14 Transport information

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Information in case of emergency:

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D-37075 Göttingen

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IN CASE OF RELEASE OF THE PRODUCT BY ACCIDENTS OR ENDANGERMENT TO THE ENVIRONMENT EACH LOCAL FIRE DEPARTMENT CAN GIVE FURTHER INFORMATION!

2. Hazards identification

· Hazard description:



Xn Harmful

Information concerning particular hazards for human and environment:

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

GHS label elements



Danger

3.1/3 -Toxic if swallowed.

3.1/3 -Toxic in contact with skin.

3.1/4 -Harmful if inhaled.

Prevention:

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

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

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

Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

Specific treatment (see on this label).

Specific measures (see on this label).

Rinse mouth.

Remove/Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Chemical characterization:**Active Ingredient:** R-Salbutamol sulphate**Chemical Name:** R-(1,3-benzenedimethanol, α' -[[[(1,1-dimethyl-ethyl)amino] methyl]-4-hydroxy, sulfate (2:1) (salt), (\pm)**Molecular Formula:** (C₁₃H₂₁NO₃)₂•H₂SO₄**Molecular Weight:** 576.7**Components** %

Inert ingredient 90.0

R-Salbutamol sulphate 10.0

Synonyms: R-Salbutamol, Salbutamol, Albuterol hemisulfate, salbutamol hemisulfate, Salbutamol hemisulfate, and Salbutamol hemisulfate, Levosalbutamol sulfate**Identification number(s)****EINECS Number:** 256-916-8**CAS No.:** 36519-31-0 R-Salbutamol Sulfate

4. 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.

Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes (10-15) under running water.

After swallowing:

Call for a doctor immediately.

5. Fire-fighting measures

Suitable extinguishing agents:CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Protective equipment:**

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

6. Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid formation of dust.

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Send for recovery or disposal in suitable receptacles.

Additional information:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and storage

Handling:**Information for safe handling:**

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Keep away from heat and direct sunlight.

Information about fire -and explosion protection:

Keep ignition sources away -Do not smoke.
Protect from heat.

Storage:**Requirements to be met by storerooms and receptacles:**

The water-legal regulations are to be considered.

Information about storage in one common storage facility:

Store away from foodstuffs.

Don't store together with materials/products which can lead to dangerous reactions with material/product.

Further information about storage conditions: Keep container tightly sealed.

8. Exposure controls/personal protection

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.

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing

Do not inhale dust / smoke / mist.

Do not eat, drink, smoke or sniff while working.

Respiratory protection:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Recommended filter device for short term use:

Filter P1

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check protective gloves prior to each use for their proper condition.

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

Preventive skin protection by use of skin-protecting agents is recommended.

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.

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:



Safety glasses

Body protection: Protective work clothing

9. Physical and chemical properties

General Information

Form: Crystalline powder
Colour: Whitish
Odour: Odourless

Change in condition

Melting point/Melting range: 154-158°C

Boiling point/Boiling range: Undetermined.

Flash point: > 250°C

Flammability (solid, gaseous): Product is not flammable.

Danger of explosion: Product does not present an explosion hazard.

Density: Not determined.

Solubility in / Miscibility with water: Soluble.

10. Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Materials to be avoided: Strong oxidizing agents

Dangerous reactions: No dangerous reactions known.

Dangerous decomposition products:

Could be released in case of fire:

Sulphur oxides (SO_x)

Nitrogen oxides (NO_x)

Carbon monoxide and carbon dioxide

11. Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

Oral LD50 > 2500 mg/kg (rat)

Primary irritant effect:

on the skin: Irritation possible

on the eye: Irritation possible.

Sensitization: No sensitizing effects known.

12. Ecological information

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13. Disposal considerations

Product:**Recommendation**

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

Must be specially treated adhering to official regulations.

Waste disposal key: The waste code is to be specified in arrangement with the regional disposer.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transport information

Transport/Additional information: Not dangerous according to the above specifications.

15. Regulatory information

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

Xn Harmful

Risk phrases:

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Safety phrases:

2 Keep out of the reach of children.

9 Keep container in a well-ventilated place.

13 Keep away from food, drink and animal feeding stuffs.

36/37 Wear suitable protective clothing and gloves.

16. Other information

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.

Abbreviations and acronyms:

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent