

SAFETY DATA SHEET

Version 1.0
Revision Date 09/29/2026
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SECTION 1. IDENTIFICATION

1.1 Product identifiers

Product name : **Clenbuterol 80 mcg Tablets**
Product Number : CLEN-TAB
Brand : 4AminoLabs
CAS-No. (active) : 21898-19-1
Reference batch : See container label

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

Identified uses : Laboratory research and analytical reference use.
Uses advised against : Not for human or veterinary use. Not a drug, dietary supplement, food, or cosmetic.
Supplied under the TSCA R&D Exemption (40 CFR Section 720.36); it is the recipient's responsibility to comply with the requirements of the R&D exemption.

1.3 Details of the supplier of the safety data sheet

Company : 4AminoLabs
1001 S. Main Street, STE 600
Kalispell, MT 59901
UNITED STATES
Telephone : +1 (256) 472-1983
E-mail : sales@4aminolabs.com
Website : www.4aminolabs.com

1.4 Emergency telephone number

Emergency Phone # : Poison Control Center (US): 1-800-222-1222 (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification is based on the finished tablets (260 mg): clenbuterol hydrochloride is present at approx. 0.031 % w/w, below the concentration limits for all hazard classes of the pure substance (Acute Tox. 3, Carc. 2, Repr. 1B).

GHS label elements

Hazard pictograms : None
Signal word : None
Hazard statements : None
Precautionary statements : None

Other hazards

Contains a potent beta-2 adrenergic agonist; ingestion of multiple tablets may cause rapid heart rate and tremor. Crushing or grinding tablets may generate airborne dust.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration
Clenbuterol hydrochloride Synonyms: 4-amino- α -[(tert-butylamino)methyl]-3,5-dichlorobenzyl alcohol hydrochloride Formula: $C_{12}H_{18}Cl_2N_2O \cdot HCl$ Molecular weight: 313.65 g/mol	21898-19-1	approx. 80 mcg/tablet approx. 0.031 % w/w
Microcrystalline cellulose	9004-34-6	Balance
Dicalcium phosphate	7757-93-9	Balance
Magnesium stearate	557-04-0	Balance
Silicon dioxide (amorphous)	7631-86-9	Balance

Excipients are not classified as hazardous. Individual excipient percentages are withheld as trade secret.

SECTION 4. FIRST AID MEASURES

General advice	: Show this safety data sheet to the doctor in attendance.
If inhaled	: After inhalation: fresh air. Call in physician if symptoms develop.
In case of skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact	: After eye contact: rinse out with plenty of water for at least 15 minutes. Remove contact lenses.
If swallowed	: After swallowing: rinse mouth, make victim drink water (two glasses at most). Do not induce vomiting. Consult a physician.
Most important symptoms and effects, both acute and delayed	: Clenbuterol is a potent beta-2 adrenergic agonist; exposure may cause rapid heart rate, palpitations, tremor, nervousness, headache, low blood potassium, and elevated blood glucose. See also section 11.
Protection of first-aiders	: For personal protection see section 8.
Notes to physician	: Treat symptomatically. Monitor heart rate, ECG, serum potassium and glucose. Beta-blockers may be considered under medical supervision.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray, dry powder, foam, carbon dioxide (CO ₂).
Unsuitable extinguishing media	: For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards during firefighting	: Combustible. Finely divided dust may form explosive mixtures in air.
Hazardous combustion products	: Carbon oxides Nitrogen oxides (NO _x) Phosphorus oxides
Further information	: Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: For personal protection see section 8.
Environmental precautions	: Do not let product enter drains. Prevent release to the environment.

Methods and materials for containment and cleaning up : Collect intact tablets by hand. Take up broken tablets and powder dry, avoiding generation of dusts; a HEPA vacuum may be used. Place in a closed, labeled container. Decontaminate surfaces with alcohol followed by soap and water. Dispose of properly (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For precautions see section 2. Handle only by qualified personnel in a laboratory setting. Crush, split, or weigh tablets only in a fume hood or ventilated enclosure. Avoid contact with skin and eyes.

Hygiene measures : Change contaminated clothing. Wash hands after working with substance. Do not eat, drink, or smoke in work areas.

Further information on storage conditions : Tightly closed. Dry. Protect from light.

Storage class : 11, Combustible Solids

Recommended storage temperature : 68 - 77 °F / 20 - 25 °C

Materials to avoid : Strong oxidizing agents, strong acids and bases.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Component	CAS-No.	Value type	Control parameter	Basis
Clenbuterol hydrochloride	21898-19-1	-	No established limit	-
Particulates not otherwise regulated (excipient dust)	-	TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable)	5 mg/m ³	OSHA Z-1

Engineering measures : Use a fume hood or ventilated balance enclosure when tablets are crushed, split, or weighed. Provide an eyewash station and safety shower.

Personal protective equipment

Respiratory protection : Required when dusts are generated. Use a NIOSH-approved N95 or P100 particulate respirator. Maintenance, cleaning, and testing of respiratory protective devices must be carried out according to the manufacturer's instructions and documented.

Hand protection : Material: Nitrile rubber
Glove thickness: minimum 0.11 mm
Protective index: full contact and splash contact
Remarks: Handle with impervious gloves. Inspect before use and dispose of after contamination.

Eye protection : Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses with side shields.

Skin and body protection : Laboratory coat. Impervious clothing as needed for the task.

Hygiene measures : Change contaminated clothing. Wash hands after working with substance.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Solid, tablet

Color : Purple

Odor : No data available

Odor Threshold : No data available

pH : No data available

Melting point : No data available

Boiling point/boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Dust may be combustible
Upper/lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Water solubility	: Soluble (clenbuterol hydrochloride)
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: 313.65 g/mol (clenbuterol hydrochloride)
Particle size	: Not applicable (tablet)

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No data available
Chemical stability	: The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions	: No data available
Conditions to avoid	: Heat, moisture, direct light, dust formation.
Incompatible materials	: Strong oxidizing agents, strong acids, strong bases, strong reducing agents.
Hazardous decomposition products	: In the event of fire: see section 5

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Not classified for the tablets (approx. 0.031 % w/w active). Pure clenbuterol hydrochloride: Acute Tox. 3 (Oral).

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

Not classified for the tablets (below the 0.1 % limit). Pure clenbuterol hydrochloride: Carc. 2.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Reproductive toxicity

Not classified for the tablets (below the 0.1 % limit). Pure clenbuterol hydrochloride: Repr. 1B.

Specific target organ toxicity - single exposure

No data available. Beta-2 adrenergic agonist: cardiovascular system.

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

Not applicable

11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Pharmacologically active substance; avoid release to the environment. This product neither contains, nor was manufactured with, a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- | | | |
|------------------------|---|---|
| Waste from residues | : | Waste material must be disposed of in accordance with national, state, and local regulations using a licensed waste disposal contractor. Leave chemicals in original containers. No mixing with other waste. Do not dispose of in household trash or sewer. |
| Contaminated packaging | : | Handle uncleaned containers like the product itself. |

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

National Regulations

49 CFR (DOT)

Not regulated as a dangerous good

Poison Inhalation Hazard : No

Special precautions for user : Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 302 / 304 Extremely Hazardous Substances

This material does not contain any components with a section 302 EHS TPQ or section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP) as defined by the U.S. Clean Air Act Section 112 (40 CFR 61), nor any Class I or Class II ODS.

Clean Water Act

This product does not contain any Hazardous Substances listed under Section 311, Table 116.4A, or toxic or priority pollutants under Section 307.

US State Regulations

Massachusetts Right To Know : No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know : No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right To Know : No components are subject to the New Jersey Right to Know Act.

Maine / Vermont / Washington
Chemicals of High Concern : Product does not contain any listed chemicals.

California Prop. 65 : This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Inventories

TSCA : Product contains substance(s) not listed on the TSCA inventory. Supplied for research and development use only under 40 CFR 720.36.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; GHS - Globally Harmonized System; HEPA - High-Efficiency Particulate Air; IARC - International Agency for Research on Cancer; IATA-DGR - International Air Transport Association Dangerous Goods Regulations; IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to 50% of a test population; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; ODS - Ozone Depleting Substance; OSHA - Occupational Safety and Health Administration; PPE - Personal Protective Equipment; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average.

For research use only. Not for human or veterinary use. The information is believed to be correct but is not exhaustive and shall be used solely as a guideline, based on current knowledge of the chemical substance or mixture, and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. 4AminoLabs shall not be held liable for any damage resulting from handling or from contact with the above product. The burden of safe use rests with the user.

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