

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-22

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

### 1.1 Product identifiers

|                |                                 |
|----------------|---------------------------------|
| Product name   | : Formoterol Fumarate Dihydrate |
| Product Number | : F136115                       |
| Brand          | : aladdin                       |
| CAS-No.        | : 183814-30-4                   |

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

|                 |                                                    |
|-----------------|----------------------------------------------------|
| Identified uses | : Laboratory chemicals, Manufacture of substances. |
|-----------------|----------------------------------------------------|

### 1.3 Company

|           |                                                   |
|-----------|---------------------------------------------------|
| Company   | : ALADDIN SCIENTIFIC CORPORATION                  |
| Address   | : 14078 Meridian Parkway,<br>Riverside, CA. 92518 |
| Telephone | : +1 (833) 552-7181                               |
| Fax       | : no data available                               |

### 1.4 Emergency telephone number

|                            |                  |
|----------------------------|------------------|
| CHEMTREC®, Inside the USA  | : 1-800-424-9300 |
| CHEMTREC®, Outside the USA | :                |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

|      |                                                     |
|------|-----------------------------------------------------|
| H302 | Harmful if swallowed                                |
| H330 | Fatal if inhaled                                    |
| H331 | Toxic if inhaled                                    |
| H332 | Harmful if inhaled                                  |
| H351 | Suspected of causing cancer                         |
| H361 | Suspected of damaging fertility or the unborn child |

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|                                   |                                                                            |
|-----------------------------------|----------------------------------------------------------------------------|
| H370                              | Causes damage to organs                                                    |
| H372                              | Causes damage to organs through prolonged or repeated exposure             |
| H373                              | Causes damage to organs through prolonged or repeated exposure             |
| <b>Precautionary statement(s)</b> |                                                                            |
| P260                              | Do not breathe dust/fume/gas/mist/vapors/spray.                            |
| P261                              | Avoid breathing dust/fume/gas/mist/vapors/spray.                           |
| P264                              | Wash hands [and ...] thoroughly after handling.                            |
| P270                              | Do not eat, drink or smoke when using this product.                        |
| P271                              | Use only outdoors or in a well-ventilated area.                            |
| P280                              | Wear protective gloves/protective clothing/eye protection/face protection. |
| P284                              | [In case of inadequate ventilation] Wear respiratory protection.           |
| P320                              | Specific treatment is urgent (see ... on this label).                      |
| P321                              | Specific treatment (see ... on this label).                                |
| P330                              | Rinse mouth.                                                               |
| P304+P340                         | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P405                              | Store locked up.                                                           |
| P403+P233                         | Store in a well-ventilated place. Keep container tightly closed.           |
| P501                              | Dispose of contents/container to an approved waste disposal plant.         |
| P203                              | Obtain, read and follow all safety instructions before use.                |
| P301+P317                         | IF SWALLOWED: Get medical help.                                            |
| P318                              | if exposed or concerned, get medical advice.                               |
| P317                              | Get emergency medical help.                                                |
| P308+P316                         | IF exposed or concerned: Get emergency medical help immediately.           |
| P316                              | Get emergency medical help immediately.                                    |
| P319                              | Get medical help if you feel unwell.                                       |

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                                                                                                                                                      |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Synonyms         | : (R*,R*)-N-[2-Hydroxy-5-[1-hydroxy-2-[[2-(4-methoxyphenyl)-1-methylethyl]amino]ethyl]phenyl]formamide fumarate Formoterol; Formoterol hemifumarate salt monohydrate |
| Formula          | : C <sub>19</sub> H <sub>24</sub> N <sub>2</sub> O <sub>4</sub> · 0.5C <sub>4</sub> H <sub>4</sub> O <sub>4</sub> · H <sub>2</sub> O                                 |
| Molecular weight | : 420.46                                                                                                                                                             |
| CAS No.          | : 183814-30-4                                                                                                                                                        |
| EC-NO.           | : no data available                                                                                                                                                  |

| Component                            | Classification    | Concentration |
|--------------------------------------|-------------------|---------------|
| <b>Formoterol Fumarate Dihydrate</b> |                   |               |
|                                      | no data available | ≥98%(HPLC)    |

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: https://www.aladdinsci.com/

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

no data available

#### If inhaled

If inhaled, please move the patient to fresh air. If breathing stops, give artificial respiration.

#### In case of skin contact

Rinse with soap and plenty of water. Consult a doctor.

#### In case of eye contact

Separate the eyelids and rinse with flowing water or physiological saline. Seek medical attention immediately.

#### If swallowed

Do not feed anything from the mouth to an unconscious person. Rinse your mouth with water.

### 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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

#### Unsuitable extinguishing media

no data available

### 5.2 Special hazards arising from the substance or mixture

no data available

### 5.3 Advice for firefighters

If necessary, wear self-contained breathing apparatus for firefighting operations.

### 5.4 Further information

no data available

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## SECTION 6: Accidental release measures

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

Avoid dust generation. Avoid inhaling vapors, aerosols, or gases. Ensure sufficient ventilation.

### 6.2 Environmental precautions

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Do not allow the product to enter the sewer.

**6.3 Methods and materials for containment and cleaning up**

Sweep and shovel away. Store in appropriate closed containers pending disposal.

**6.4 Reference to other sections**

For disposal see section 13.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Keep away from heat and sources of ignition. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place.

**7.3 Specific end use(s)**

no data available

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

**8.1 Control parameters**

**8.2 Exposure controls**

**Appropriate engineering controls**

no data available

**Personal protective equipment**

**Eye/face protection**

no data available

**Skin protection**

no data available

**Body Protection**

no data available

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection,use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU).

**Control of environmental exposure**

no data available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                 |                   |
|-------------------------------------------------|-------------------|
| a) Appearance                                   | no data available |
| b) Odour                                        | no data available |
| c) Odour Threshold                              | no data available |
| d) pH                                           | no data available |
| e) Melting point/freezing point                 | no data available |
| f) Initial boiling point and boiling range      | no data available |
| g) Flash point                                  | no data available |
| h) Evaporation rate                             | no data available |
| i) Flammability (solid, gas)                    | no data available |
| j) Upper/lower flammability or explosive limits | no data available |
| k) Vapour pressure                              | no data available |
| l) Vapour density                               | no data available |
| m) Relative density                             | no data available |
| n) Water solubility                             | no data available |
| o) Partition coefficient: n-octanol/water       | no data available |
| p) Auto-ignition temperature                    | no data available |
| q) Decomposition temperature                    | no data available |
| r) Viscosity                                    | no data available |
| s) Explosive properties N                       | no data available |
| t) Oxidizing properties N                       | no data available |

### 9.2 Other safety information

no data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

strong oxidant

## 10.6 Hazardous decomposition products

In case of fire, it will decompose into harmful substances. Carbon oxide, Nitrogen oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

There are no components in this product at levels greater than or equal to 0.1% that have been identified by IARC as possible or definite human carcinogens.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

Inhalation may be harmful. May cause respiratory irritation.

**Additional Information**

no data available

## SECTION 12: Ecological information

### 12.1 Toxicity

no data available

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

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no data available

**12.5 Results of PBT and vPvB assessment**

no data available

**12.6 Other adverse effects**

no data available

**SECTION 13:**

**13.1 Disposal considerations**

**Product**

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

**DOT (US)**

|                                           |                                            |                                             |
|-------------------------------------------|--------------------------------------------|---------------------------------------------|
| UN number: no data available              | Packing group: no data available           | Class: no data available                    |
| Proper shipping name: Not dangerous goods | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |
| Environmental Hazards: No                 |                                            |                                             |

**IMDG**

|                                           |                                  |                           |
|-------------------------------------------|----------------------------------|---------------------------|
| UN number: no data available              | Packing group: no data available | EMS-No: no data available |
| Proper shipping name: Not dangerous goods |                                  |                           |

**IATA**

|                                           |                                  |                          |
|-------------------------------------------|----------------------------------|--------------------------|
| UN number: no data available              | Packing group: no data available | Class: no data available |
| Proper shipping name: Not dangerous goods |                                  |                          |

**SECTION 15: Regulatory information**

no data available

**SECTION 16: Other information**

|               |                                                                                                |
|---------------|------------------------------------------------------------------------------------------------|
| Prepared By   | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: QualityAssurance@aladdinsci.com |
| Creation Date | 10-Sep-2020                                                                                    |
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ALADDIN SCIENTIFIC CORPORATION

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**Revision Summary**

SDS sections updated v1

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