

## Safety Data Sheet

according to UK REACH Regulation

### Bendroflumethiazide-D5

Revision date:

Product code: SA047

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

##### 1.1. Product identifier

Bendroflumethiazide-D5

##### **Further trade names**

3,4-Dihydro-3-(phenylmethyl-d5)-6-(trifluoromethyl)-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-Dioxide; 3-(Benzyl-d5)-3,4-dihydro-6-(trifluoromethyl)-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-Dioxide; Aprinox-d5; Be 724A-d5; Bendrofluazide-d5; (+/-)-Bendroflumethiazide-d5; Bristuron-d5; Centyl-d5; Corzide-d5; FT 81-d5; Flumersil-d5; Naturine-d5; Sinesaline-d5; Sodiuretic-d5; Thiazidico-d5; Urlea-d5

CAS No: 1330183-13-5

##### 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 number:

+493063922001

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

##### **GB CLP Regulation**

This substance is not classified as hazardous in accordance with GB CLP Regulation.

##### 2.2. Label elements

##### 2.3. Other hazards

No data available

#### SECTION 3: Composition/information on ingredients

##### 3.1. Substances

Sum formula: C15H9D5F3N3O4S2

Molecular weight: 426.45 g/mol

##### **Hazardous components**

none (according to UK REACH Regulation)

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

##### **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.

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#### **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 (CO<sub>2</sub>).

#### **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.

#### **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

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#### 7.3. Specific end use(s)

none

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 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:	solid
Colour:	white
Odour:	odourless

##### Changes in the physical state

Melting point/freezing point:	140-145 °C
Boiling point or initial boiling point and boiling range:	No data available
Flash point:	No data available

##### Flammability

Solid/liquid:	No data available
Gas:	No data available

##### Explosive properties

No data available

Lower explosion limits:	No data available
Upper explosion limits:	No data available
Auto-ignition temperature:	No data available

##### Self-ignition temperature

Solid:	No data available
Gas:	No data available

Decomposition temperature:	No data available
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pH-Value:	No data available
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Water solubility:	No data available
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##### Solubility in other solvents

No data available

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Partition coefficient n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	No data available
Relative vapour density:	No data available

#### **9.2. Other information**

##### **Information with regard to physical hazard classes**

Oxidizing properties  
No data available

##### **Other safety characteristics**

Evaporation rate: No data available

##### **Further Information**

none

### **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 (lye), 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.

##### **Irritation and corrosivity**

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

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#### SECTION 12: Ecological information

##### 12.1. Toxicity

No data available

##### 12.2. Persistence and degradability

No data available

##### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

##### 12.4. Mobility in soil

No data available

##### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

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

##### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

##### 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)

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

##### Inland waterways transport (ADN)

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

##### Marine transport (IMDG)

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

##### Air transport (ICAO-TI/IATA-DGR)

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

##### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

##### 14.6. Special precautions for user

No data available

##### 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

#### SECTION 15: Regulatory information

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

###### National regulatory information

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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.

Water hazard class (D):

3 - highly hazardous to water

#### **15.2. Chemical safety assessment**

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

### **SECTION 16: Other information**

#### **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.