

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)  
Classifications according to Regulation (EC) No 1272/2008.  
Printdate 15 Apr 2025

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product name:

Allethrin

### 1.1. Catalog No.:

675378

### 1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical  
uses: R&D

### 1.3. Uses advised against:

HPC Standards GmbH  
Am Wieseneck 7

04451 Cunnersdorf  
Deutschland

Tel. +49 34291 3372-36  
Fax. +49 34291 3372-39  
contact@hpc-standards.com

### 1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36  
This number is only available during office hours.

## 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 4), H332  
Short-term (acute) aquatic hazard (Category 1), H400  
Long-term (chronic) aquatic hazard (Category 1), H410

### 2.2. Label elements

#### 2.2.1. Pictogram



#### 2.2.2.

Label elements  
Labelling according Regulation (EC) No 1272/2008  
Signal word: Warning  
Hazard statement(s)

H302 + H332 Harmful if swallowed or if inhaled.

H410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s)

P273 Avoid release to the environment.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

Supplemental Hazard Statements: none

2.3 Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Formula : C<sub>19</sub>H<sub>26</sub>O<sub>3</sub>

Molecular weight : 302,41 g/mol

CAS-No. : 584-79-2

EC-No. : 209-542-4

Index-No. : 006-025-00-3

Component Classification Concentration

Allethrin

Acute Tox. 4; Aquatic

Acute 1; Aquatic Chronic

1; H302, H332, H400,

H410

M-Factor - Aquatic Acute:

10

<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 3.1.1. Formula

C<sub>19</sub>H<sub>26</sub>O<sub>3</sub>

#### 3.1.2. Molecular Weight (g/mol)

302.41

#### 3.1.3. CAS-No.

584-79-2

#### **4. FIRST AID MEASURES**

##### 4.1 Description of first aid measures

###### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### **5. FIRE-FIGHTING MEASURES**

##### SECTION 5: Firefighting measures

###### 5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

###### 5.2 Special hazards arising from the substance or mixture: Carbon oxides

5.3 Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

#### **6. ACCIDENTAL RELEASE MEASURES**

##### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### **7. HANDLING AND STORAGE**

##### SECTION 7: Handling and storage

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

#### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

###### 8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties a) Appearance Form: liquid

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: 66°C

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: 0,997 g/cm<sup>3</sup> at 20°C

n) Water solubility: insoluble

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: No data available

t) Oxidizing properties: No data available

9.2 Other safety information: No data available

## 10. STABILITY AND REACTIVITY

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 oxidizing agents

10.6 Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides  
Other decomposition products - No data available In the event of fire: see section 5.

## 11. TOXICOLOGICAL INFORMATION

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity: LD50 Oral - Rat - 685 mg/kg LC50 Inhalation - Mouse - > 2.000 mg/m<sup>3</sup> LD50 Dermal - Rabbit - 11.332 mg/kg Remarks: Behavioral:Tremor. Behavioral:Excitement.

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation: No data available Respiratory or skin sensitisation: No data available

Germ cell mutagenicity: Hamster Lungs Cytogenetic analysis Ames test S. typhimurium Human fibroblast Result:

negative Unscheduled DNA synthesis Carcinogenicity

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. 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: No data available

Additional Information RTECS: GZ1925000

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

## 12. ECOLOGICAL INFORMATION

### SECTION 12: Ecological information

#### 12.1 Toxicity

Toxicity to fish: LC50 - Cyprinus carpio (Carp) - 0,032 mg/l - 96,0 h

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia pulex (Water flea) - 0,021 mg/l - 48 h 12.2

Persistence and degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects: Very toxic to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

### SECTION 13: Disposal considerations

13.1 Waste treatment methods: Product Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging: Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### SECTION 14: Transport information

#### 14.1 UN number:

ADR/RID: 3082

IMDG: 3082

IATA: 3082

#### 14.2 UN proper shipping name:

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allethrin)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Allethrin)

IATA: Environmentally hazardous substance, liquid, n.o.s. (Allethrin)

14.3 Transport hazard class(es):

ADR/RID: 9

IMDG: 9

IATA: 9 14.4

Packaging group:

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards:

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: yes

## 15. REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

:

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!