

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 4; Print Date 24.08.2023

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name: **Fenbendazole**

Synonyms: Methyl 5-(phenylthio)-2-benzimidazolecarbamate

CAS-No.: 43210-67-9, EC-No.: 256-145-7, HS Code: 293300

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Intended use substance or mixture

Laboratory chemicals, Chemical synthesis

1.3 Details of the supplier of the safety data sheet

Company:

UAB ADISANT

Taikos g. 1-71, LT-18113 Svencionys, Lithuania

info@adisant.com

1.4. For information in Europe, call: + 32 14 57 52 11

Emergency Number, Europe: + 32 14 57 52 99

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Substance name: FENBENDAZOLE

Synonyms: Methyl 5-(phenylthio)-2-benzimidazolecarbamate

Formula: C₁₅H₁₃N₃O₂S

Molecular Weight : 299,35 g/mol

Content: 99,9%

CAS-No. : 43210-67-9

EC-No. : 256-145-7

HS Code: 293300

SECTION 3 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards – none

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water

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

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2 and/or in section 11)

SECTION 5 - FIRE FIGHTING MEASURES

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, Nitrogen oxides (NO_x), Sulphur oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13. 2.

SECTION 7 - HANDLING AND STORAGE

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Facilities storing and utilizing this material should be equipped with an eye wash and a safety shower facility.

Personal Protective Equipment

Eyes: Wear chemical safety goggles approved NIOSH (US) or EN 166(EU).

Skin: Wear appropriate protective gloves.

Clothing: Wear appropriate protective clothing.

Respirators: Wear respirators approved NIOSH (US) or CEN (EU) .

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Color: almost white

Odor: Not data available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 233 deg C (dec.)

Decomposition Temperature: Not available

Solubility in water: Poorly soluble in water

Specific Gravity/Density:

Molecular Formula: $C_{15}H_{13}N_3O_2S$

Molecular Weight: 299,35 g/mol

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, Nitrogen oxides (NO_x), Sulphur oxides

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11 - TOXICOLOGICAL INFORMATION

Unless otherwise specified data extracted from RTECS – Register of Toxic Effects of Chemical Substances.

Toxicity

Oral (rat) LD50: > 10 g/kg

Oral (mouse) LD50: > 10 g/kg

Oral (dog) LD50: > 500mg/kg

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure. - Liver, lymph node, Stomach, Nervous system

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - > 7,5 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 0,008 mg/l - 48 h (OECD Test Guideline 202)

SECTION 13 - DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

Not regulated for transport.

SECTION 15 - REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. International Chemical Weapons Convention: Neither banned nor restricted (CWC) Schedules of Toxic Chemicals and Precursors

Restrictions on the marketing and use of certain: Neither banned nor restricted dangerous substances and preparations

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Candidate List of Substances of Very High Concern for Authorisation: Neither banned nor restricted

SECTION 16 - OTHER INFORMATION