

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 24 Jan 2024

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

1.1. Product name:

Carbendazim

1.1. Catalog No.:

672821

1.2. Relevant identified uses of the substance or mixture Identified: Laboratory chemical uses: R&D

uses:

1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

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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 Germ cell mutagenicity (Category 1B), H340 Reproductive toxicity (Category 1B), H360 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

2.2. Label elements

2.2.1. Pictogram



2.2.2.

Signal word Danger Hazard statement(s) H340 May cause genetic defects.



H360 May damage fertility or the unborn child. H410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s) P201 Obtain special instructions before use. P273 Avoid release to the environment. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P501 Dispose of contents/ container to an approved waste disposal plant. Supplemental Hazard Statements none Restricted to professional users.

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 Synonyms : Methyl benzimidazol-2-ylcarbamate BCM Methyl 2-benzimidazolecarbamate Formula : C<SB>9</>H<SB>9</>N<SB>3</>O<SB>2</>Molecular weight : 191.19 g/mol CAS-No. : 10605-21-7 EC-No. : 234-232-0 Index-No. : 613-048-00-8 Hazardous ingradiante according to Description (FO) No. (Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Methyl benzimidazol-2-ylcarbamate CAS-No. 10605-21-7 EC-No. 234-232-0 Index-No. 613-048-00-8 Classification: Muta. 1B; Repr. 1B; Aquatic Acute 1; Aquatic Chronic 1; H340, H360FD, H400, H410 Concentration: <= 100 %

3.1.1. Formula

C9H9N3O2

3.1.2. Molecular Weight (g/mol)

191.19



3.1.3. CAS-No.

10605-21-7

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.

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. 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

4.3 Indication of any immediate medical attention and special treatment needed No data available

5. FIRE-FIGHTING MEASURES

5.1 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 (NOx) 5.3 Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary. 5.4 Further information No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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 Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.



7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire Provide appropriate exhaust ventilation at places where dust is formed, containing more 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. Storage class (TRGS 510): Combustible solids, toxic 7.2 Specific and use(c).

7.3 Specific end use(s)

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties a) Appearance Form: solid b) Odour No data available c) Odour Threshold No data available d) pH No data available
 e) Melting point/freezing point Melting point/range: > 300 °C - lit. f) Initial boiling point and 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 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 slightly soluble o) Partition coefficient: noctanol/ water log Pow: 1.5 p) Auto-ignition temperature No data available q) Decomposition tëmperature No data available r) Viscosity No data available s) Explosive properties No data available t) Oxidizing properties No data available



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 (NOx)
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 6,400 mg/kg(Methyl benzimidazol-2-ylcarbamate) LD50 Dermal - Rabbit - 8,500 mg/kg(Methyl benzimidazol-2-ylcarbamate) Skin corrosion/irritation No data available(Methyl benzimidazol-2-ylcarbamate) Serious eye damage/eye irritation No data available(Methyl benzimidazol-2-ylcarbamate) Respiratory or skin sensitisation No data available(Methyl benzimidazol-2-ylcarbamate) Germ cell mutagenicity May alter genetic material. (Methyl benzimidazol-2-ylcarbamate) In vivo tests showed mutagenic effects(Methyl benzimidazol-2-ylcarbamate) 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 May cause congenital malformation in the fetus. (Methyl benzimidazol-2-ylcarbamate) Presumed human reproductive toxicant (Methyl benzimidazol-2-ylcarbamate) May cause reproductive disorders. (Methyl benzimidazol-2-ylcarbamate) Specific target organ toxicity - single exposure No data available(Methyl benzimidazol-2-ylcarbamate) Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available(Methyl benzimidazol-2-ylcarbamate) Additional Information RTECS: DD6500000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Methyl benzimidazol-2-ylcarbamate)

12. ECOLOGICAL INFORMATION

12.1 Toxicity Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.3 mg/l - 96.0 h(Methyl benzimidazol-2-ylcarbamate) Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 0.01 - 0.04 mg/l - 48 h(Methyl benzimidazol-2-ylcarbamate) 12.2 Persistence and degradability



No data available 12.3 Bioaccumulative potential Bioaccumulation Ictalurus punctatus - 48 h - 45 ug/l(Methyl benzimidazol-2-ylcarbamate) Bioconcentration factor (BCF): 17 12.4 Mobility in soil No data available(Methyl benzimidazol-2-ylcarbamate) 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

13.1 Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber. Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number ADR/RID: 3077 IMDG: 3077 IATA: 3077 14.2 UN proper shipping name ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Methyl benzimidazol-2ylcarbamate) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Methyl benzimidazol-2ylcarbamate) IATA: Environmentally hazardous substance, solid, n.o.s. (Methyl benzimidazol-2-ylcarbamate) 14.3 Transport hazard class(es) ADR/RID: 9 IMDG: 9 IATA: 9 14.4 Packaging group ADR/RID: 1II IMDG: III IATA: III 14.5 Environmental hazards ADR/RID: yes IMDG Marine pollutant: no IATA: yes 14.6 Special precautions for user No data available

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. 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!