

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 17 Oct 2022

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

1.1. Product name:

Bifenazate

1.1. Catalog No.:

675513

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

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
Eye irritation (Category 2), H319
Skin sensitisation (Category 1), H317
Acute aquatic toxicity (Category 1), H400 Classification according to EU Directives 67/548/EEC or 1999/45/EC
Xi Irritant R36, R43

2.2. Label elements

2.2.1. Pictogram





2.2.2.

Signal word Warning Hazard statement(s)
H317 May cause an allergic skin reaction.



H319 Causes serious eye irritation. H400 Very toxic to aquatic life Precautionary statement(s) P273 Avoid release to the environment. P280 Wear protective gloves.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard Statements none 2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

o. i Substances
Synonyms: Isopropyl 3-(4-methoxybiphenyl-3-yl)carbazate
1-Methylethyl 2-(4-methoxy[1,1′-biphenyl]-3-yl)hydrazinecarboxylate
Formula: C17H20N2O3
Molecular Weight: 300,35 g/mol
CAS-No.: 149877-41-8
EC-No.: 442-820-5
Hazardous ingrediente according to Bosylation (FC) No. 4670/2003

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification Concentration Bifenazate PESTANAL® Eye Irrit. 2; Skin Sens. 1; Aquatic Acute 1; H317, H319, H400

Hazardous ingredients according to Directive 1999/45/EC Component Classification Concentration Bifenazate PESTANAL®

Xi, R36 - R43 -

3.1.1. Formula

C17H20N2O3

3.1.2. Molecular Weight (g/mol)

300.35



149877-41-8

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.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. 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 continuous and effects.

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

Carbon oxides, nitrogen oxides (NOx)
5.3 Advice for firefighters
Wear self contained breathing apparatus for fire fighting 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 contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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)

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

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 équipment

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).

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's 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. 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

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. 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

9.1 Information on basic physical and chemical properties

a) Appearance Form: crystalline

Colour: white

b) Odour characteristic

c) Odour Threshold no data available d) pH no data available

e) Melting point/freezing

point 123 - 125 °C - lit.

f) Initial boiling point and

boiling range

no data available

g) Flash point no data available
h) Evapouration rate no data available

i) Flammability (solid, gas) no data available

i) Upper/lower

flammability or

explosive limits

no data available

k) Vapour pressure no data available



I) Vapour density no data available m) Relative density 1,31 g/cm3 n) Water solubility no data available o) Partition coefficient: noctanol/ log Pow: 3,4 at 25 °C p) Auto-ignition témperature no data available g) Decomposition témperature no data available r) Viscosity no data available s) Explosive properties no data available

5) Explosive properties no data available to Oxidizing properties no data available 9.2 Other safety information Solubility in other Methanol 144,7 g/l at 20 °C solvents Toluene 24,7 g/l at 20 °C Dissociation constant 12,94 at 23 °C

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 Acids, Strong oxidizing agents
10.6 Hazardous decomposition products 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 - > 5.000 mg/kg
LC50 Inhalation - rat - > 4,4 mg/l
LD50 Dermal - rat - > 2.000 mg/kg
Skin corrosion/irritation Skin - rabbit Result: Mild skin irritation Serious eye damage/eye irritation Eyes - rabbit Result: Mild eye irritation Eyes - Human Result: Moderate eye irritation Respiratory or skin sensitisation - guinea pig
May cause sensitisation by skin contact.

(Maximisation Test)
Remarks: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity no data available Carcinogenicity

Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

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: Not available

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

thoroughly investigated.

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thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Toxicity to fish LC50 - Lepomis macrochirus (Bluegill) - 0,58 mg/l - 96 h
LC50 - Carassius auratus (goldfish) - 0,76 mg/l - 96 h

Toxicity to daphnia and

other aquatic

invertebrates

LC50 - Daphnia - 0,50 mg/l - 48 h
Toxicity to algae EbC50 - Skeletonema costatum - 0,30 mg/l - 96 h
ErC50 - SELENASTRUM - 0,90 mg/l - 96 h
12.2 Persistence and degradability
Biodegradability are time 0,33 d
Personal of the results of tests of biodegradability this personal of the results of tests of biodegradability.

Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable. anaerobic - Exposure time 77,9 d 12.3 Bioaccumulative potential

Accumulation in aquatic organisms is expected.

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

Very toxic to aquatic life. no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and 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. (Bifenazate
PESTANAL®) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bifenazate
PESTANAL®)

IATA: Environmentally hazardous substance, solid, n.o.s. (Bifenazate PESTANAL®) 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 14.6 Special precautions for user Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available 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!