

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 11 Oct 2023

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

#### 1.1. Product name:

Fenamiphos

## 1.1. Catalog No.:

674559

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

Identified: Laboratory chemical uses: R&D

uses:

### 1.3. Uses advised against:

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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
Acute toxicity, Oral (Category 2), H300
Acute toxicity, Inhalation (Category 2), H330
Acute toxicity, Dermal (Category 2), H310
Eye irritation (Category 2), H319
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410 Classification according to EU Directives 67/548/EEC or 1999/45/EC
T+ Very toxic R26/28
T Toxic R24
N Dangerous for the 2.1 Classification of the substance or mixture N Dangerous for the environment R50/53 Xi Irritant R36

# 2.2. Label elements

# 2.2.1. Pictogram







### 2.2.2.

Signal word Danger Hazard statement(s) H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled H319 Causes serious eye irritation. H410 Very toxic to aquatic life with long lasting effects. Precautionary statement(s)
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER or doctor/ physician.
P304 + P340 + P310 IF ON GINIV. Wash Mar Plond, CENTER or doctor/ physician.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed. 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

Chemical characterization: Natural product Synonyms: Phenamiphos Formula: C13H22NO3PS

Molecular weight : 303,36 g/mol CAS-No. : 22224-92-6 EC-No. : 244-848-1 Index-No.: 015-123-00-5

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification Concentration

Fenamiphos CAS-No. EC-No. Index-No. 22224-92-6 244-848-1 244-848-1 015-123-00-5 Acute Tox. 2; Eye Irrit. 2; Aquatic Acute 1; Aquatic Chronic 1; H300 + H310 + H330, H319, H410 <= 100 % Hazardous ingredients according to Directive 1999/45/EC Component Classification Concentration Fenamiphos CAS-No. EC-No. Index-No. 22224-92-6 244-848-1 015-123-00-5 T+, N, R24 - R26/28 - R36 -R50/53 <= 100 %



#### 3.1.1. Formula

C13H22NO3PS

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

303.36

### 3.1.3. CAS-No.

22224-92-6

#### 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. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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 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 (NOx), Sulphur oxides, Oxides of phosphorus

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 Wear respiratory protection. 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. Recommended storage temperature 2 - 8 °C Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

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

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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 glove's outer surface) to avoid skin contact with this product. Dispose of the proper glove after use in accordance with applicable laws and good laboratory practices. 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

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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

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 No data available

f) Initial boiling point and

boiling range No data available

g) Flash point 100,00 °C - closed cup h) Evaporation rate No data available i) Flammability (solid, gas) No data available

j) Upper/lower flammability or explosive limits No data available

No data available
(k) Vapour pressure 1,7 hPa at 30 °C
I) Vapour density No data available
m) Relative density 1,140 g/cm3
n) Water solubility slightly soluble
o) Partition coefficient: noctanol/

water

log Pow: 3,3 at 20 °C 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

9.2 Other safety information

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
Other decomposition products - No data available
In the event of fire: see section 5 10.1 Reactivity

# 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity
LD50 Oral - Rabbit - 10 mg/kg
LD50 Oral - Mouse - 22,7 mg/kg
LC50 Inhalation - Rat - 4 h - 91 mg/m3



LD50 Dermal - Rat - 80 mg/kg Skin corrosion/irritation

No data available

Serious eye damage/eye irritation Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Respiratory or skin sensitisation

No data available Germ cell mutagenicity

No data available

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

Reproductive toxicity - Rat - Oral Maternal Effects: Other effects.

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: TB3675000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated thoroughly investigated.

#### 12. ECOLOGICAL INFORMATION

Toxicity to fish LC50 - Cyprinodon variegatus (sheepshead minnow) - 0,02 mg/l - 96,0 h

LC50 - Oncorhynchus mykiss (rainbow trout) - 0,07 - 0,6 mg/l - 96,0 h

Toxicity to daphnia and

other aquatic

invertebrates

EC50 - Daphnia magna (Water flea) - 0,002 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 with long lasting effects.

#### 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: 2811 IMDG: 2811 IATA: 2811
14.2 UN proper shipping name
ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (Fenamiphos)
IMDG: TOXIC SOLID, ORGANIC, N.O.S. (Fenamiphos)
IATA: Toxic solid, organic, n.o.s. (Fenamiphos)
14.3 Transport hazard class(es)
ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
14.4 Packaging group
ADR/RID: II IMDG: II IATA: II
14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: yes IATA: no
14.6 Special precautions for user
No data available

## 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!