

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 09 Nov 2023

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

1.1. Product name:

Phoxim

1.1. Catalog No.:

676431

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
 Acute Tox. 3 H311 Toxic in contact with skin.
 Acute Tox. 2 H330 Fatal if inhaled.
 Repr. 2 H361f Suspected of damaging fertility.
 Aquatic Acute 1 H400 Very toxic to aquatic life.
 Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.
 Acute Tox. 4 H302 Harmful if swallowed.
 Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2. Label elements

2.2.1. Pictogram









· 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

· Signal word Danger

Hăzard statements

H302 Harmful if swallowed.

H311 Toxic in contact with skin. H330 Fatal if inhaled.

H317 May cause an allergic skin reaction.
H361f Suspected of damaging fertility.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P310 Immediately call a POISON CENTER/doctor.

P310 Immediately call a POISON CENTER/doctor.
P320 Specific treatment is urgent (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation: Substances

CAS No. Description
 14816-18-3 phoxim (ISO)
 Identification number(s) None
 EC number: 238-887-3
 Index number: 015-100-00-X
 RTECS: MD 4740000

3.1.1. Formula

C12H15N2O3PS

3.1.2. Molecular Weight (g/mol)

298.30



3.1.3. CAS-No.

14816-18-3

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may occur even after several hours; therefore medical observation for at least 48 hours after the accident is recommended.

Remove breathing equipment only after contaminated clothing has been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient in recovery position for transport.
Seek immediate medical advice.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Rinse mouth. Do not induce vomiting.

Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable for surrounding conditions.
5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
5.3 Advice for firefighters

Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.



See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1 Precautions for safe finding
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. 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.
Recommended storage temperature: 2 - 8 °C
7.2 Specific and uses.

7.3 Specific end uses no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: Lists used were valid at the time of SDS preparation.
- · 8.2 Exposure controls

Personal protective equipment:
 General protective and hygienic measures:
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

• Material of gloves Butyl rubber, BR

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection: Safety glasses

9. PHYSICAL AND CHEMICAL PROPERTIES

- · 9.1 Information on basic physical and chemical properties
- · General Information



Appearance: Form: Liquid

Colour: Dark yellow

- Odour: Odourless
 Odour threshold: Not determined.
 pH-value: Not determined.
 Change in condition

Melting point/freezing point: 6.1 °C
Initial boiling point and boiling range: Not determined.
Flash point: Not applicable.
Flammability (solid, gas): Not determined.
Ignition temperature: Not determined.

- · Decomposition temperature: Not determined. Auto-ignition temperature: Not determined.
- Explosive properties: Not determined.
 Explosion limits:

Lower: Not determined. Upper: Not determined.

- Upper: Not determined.

 Vapour pressure at 20 °C: 0.0001 hPa

 Density at 20 °C: 1.178 g/cm³

 Relative density Not determined.

 Vapour density Not determined.

 Evaporation rate Not determined.

 Solubility in / Miscibility with water at 20 °C: 7 g/l

 Partition coefficient: n-octanol/water: 4.39 logP

 Viscosity:

Viscosity:

Dynamic: Not determined.

 Not determined.

 Not determined.

Kinematic: Not determined.

• 9.2 Other information No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

No further relevant information available.

10.2 Chemical stability Stable under normal conditions.
 Thermal decomposition / conditions to be avoided:

Formation of toxic gases is possible during heating or in case of fire.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid Heat.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products:
Formation of toxic gases is possible during heating or in case of fire.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Toxic in contact with skin.

Fatal if inhaled.

LD/LC50 values relevant for classification: Oral LD50 300 mg/kg (rat) Dermal LD50 1,000 mg/kg (rat) Inhalative LC50/4 h >0.8 mg/l (rat)

· Primary irritant effect:

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation Based on available data, the classification criteria are not met.

· Respiratory or skin sensitisation



May cause an allergic skin reaction

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Repr. 2

- Germ cell mutagenicity Based on available data, the classification criteria are not met.
 Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity

- Suspected of damaging fertility.

 STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

- · 12.1 Toxicity

- Aquatic toxicity:
 LC50/96 h 0.54 mg/l (fish)

 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
 12.4 Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Very toxic for fish
 Additional ecological information:
- General notes:

Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

- Very toxic for aquatic organisms

 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable
- 12.6 Other adverse effects No further relevant information available.

13. DISPOSAL CONSIDERATIONS

- · 13.1 Waste treatment methods
- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

· Uncleaned packaging:

· Recommendation: Dispose of in accordance with national regulations.

14. TRANSPORT INFORMATION

- · 14.1 UN-Number
- · 14.1 UN-14011DE1 · ADR, IMDG, IATA UN3018 · ADR 3018 ORGANOPHOSPHORUS PESTICIDE, LIQUID, T O X I C (phoxim(ISO)), ENVIRONMENTALLY HAZARDOUS



· IMDG ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC (phoxim (ISO)), MARINE POLLUTANT · IATA ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC

(phoxim (ISO))

• 14.3 Transport hazard class(es) • ADR, IMDG

· Class 6.1 Toxic substances. · Label 6.1

· IATA

· Class 6.1 Toxic substances.

Label 6.1
14.4 Packing group
ADR, IMDG, IATA II

14.5 Environmental hazards: Environmentally hazardous substance, liquid; Marine

Pollutant

Pollutant

Marine pollutant: Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user Warning: Toxic substances.

Danger code (Kemler): 60

EMS Number: F-A,S-A

Stowage Category A

Stowage Code SW2 Clear of living quarters.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 100 ml
 Excepted quantities (EQ) Code: E4
 Maximum net quantity per inner packaging: 1 ml
 Maximum net quantity per outer packaging: 500 ml
 Transport category 2
 Transport category 2
 Transport packaging: 500 ml

Tunnel restriction code D/E

· UN "Model Regulation": UN 3018 ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC (PHOXIM (ISO)), 6.1, II, ENVIRONMENTALLY HAZARDOUS

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

Named dangerous substances - AININEA I Substance is not listed.
Seveso category
H2 ACUTE TOXIC
E1 Hazardous to the Aquatic Environment
Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been 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!