

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)  
Classifications according to Regulation (EC) No 1272/2008.  
Printdate 02 Aug 2023

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

#### 1.1. Product name:

Diazinon

#### 1.1. Catalog No.:

674938

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

Identified: Laboratory chemical  
uses: R&D

#### 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

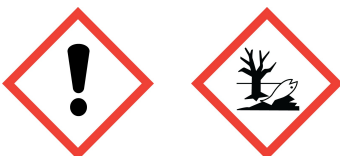
HPC Standards Tel. +49 34291 3372-36  
This number is only available during office hours.

### 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture  
Classification according to Regulation (EC) No 1272/2008  
Acute toxicity, Oral (Category 4), H302  
Acute aquatic toxicity (Category 1), H400  
Chronic aquatic toxicity (Category 1), H410 Classification according to EU Directives 67/548/EEC or 1999/45/EC  
Xn Harmful R22  
N Dangerous for the  
environment  
R50/53

#### 2.2. Label elements

##### 2.2.1. Pictogram



##### 2.2.2.

Hazard statement(s)  
H302 Harmful if swallowed.  
H410 Very toxic to aquatic life with long lasting effects.  
Precautionary statement(s)  
P273 Avoid release to the environment.  
P501 Dispose of contents/ container to an approved waste disposal plant.  
Supplemental Hazard  
Statements  
none  
2.3 Other hazards - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances  
Chemical characterization : Natural product  
Formula : C<sub>12</sub>H<sub>21</sub>N<sub>2</sub>O<sub>3</sub>PS  
Molecular Weight : 304,35 g/mol  
CAS-No. : 333-41-5  
EC-No. : 206-373-8  
Index-No. : 015-040-00-4  
Hazardous ingredients according to Regulation (EC) No 1272/2008  
Component Classification Concentration  
Diazinon  
CAS-No.  
EC-No.  
Index-No.  
333-41-5  
206-373-8  
015-040-00-4  
Acute Tox. 4; Aquatic Acute 1;  
Aquatic Chronic 1; H302,  
H410  
&lt;= 100 %

#### 3.1.1. Formula

C<sub>12</sub>H<sub>21</sub>N<sub>2</sub>O<sub>3</sub>PS

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

304.35

### 3.1.3. CAS-No.

333-41-5

## 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

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

#### 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<sub>x</sub>), Sulphur oxides, Oxides of phosphorus

### 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

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

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

Soak up with inert absorbent material and dispose of as hazardous waste. 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 inhalation of vapour or mist.

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. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 &deg;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

### 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 contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands. Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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: liquid

Colour: beige

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 104,4 &deg;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

k) Vapour pressure < 0,001 hPa at 25 &deg;C

l) Vapour density no data available

- m) Relative density 1,116 - 1,119 g/cm<sup>3</sup> at 20 °C
  - n) Water solubility no data available
  - o) Partition coefficient: noctanol/  
water  
log Pow: 3,3
  - p) Auto-ignition  
temperature  
no data available
  - q) Decomposition  
temperature  
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

## 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
- Acute toxicity
- LD50 Oral - rat - 1.012 mg/kg
- LD50 Oral - rat - 696 mg/kg
- LC50 Inhalation - rat - 4 h - > 5.400 mg/m<sup>3</sup>
- LD50 Dermal - rabbit - > 2.020 mg/kg
- Skin corrosion/irritation
- Skin - rabbit  
Result: No skin irritation
- Serious eye damage/eye irritation
- Eyes - rabbit  
Result: No eye irritation
- Respiratory or skin sensitisation  
Will not occur
- Germ cell mutagenicity  
Hamster  
Lungs  
Cytogenetic Analysis Human  
lymphocyte
- Micronucleus test  
Human  
lymphocyte
- Cytogenetic analysis  
mouse  
lymphocyte
- Mutation in mammalian somatic cells.

rat

Embryo

Morphological transformation.

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

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Reproductive toxicity - rat - Intraperitoneal

Maternal Effects: Other effects. Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Reproductive toxicity - mouse - Oral

Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

Reproductive toxicity - mouse - Oral

Effects on Newborn: Biochemical and metabolic.

Developmental Toxicity - rabbit - Oral

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Developmental Toxicity - Pig - Oral

Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental

Abnormalities: Musculoskeletal system. Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Urogenital system.

Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Musculoskeletal system.

Developmental Toxicity - rat - Intraperitoneal

Specific Developmental Abnormalities: Urogenital system.

Developmental Toxicity - mouse - Oral

Specific Developmental Abnormalities: Endocrine system.

Developmental Toxicity - rat - Intraperitoneal

Effects on Embryo or Fetus: Extra embryonic structures (e.g., placenta, umbilical cord). Effects on Fertility:

Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on

Fertility: Litter size (e.g., # fetuses per litter; measured before birth).

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: TF3325000

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

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish mortality LOEC - Pimephales promelas (fathead minnow) - 0,316 mg/l - 7,0 d

LC50 - Salmo salar (Atlantic salmon) - 3,2 mg/l - 96,0 h

Toxicity to daphnia and

other aquatic

invertebrates

mortality LOEC - Daphnia - 0,001 mg/l - 48 h

mortality NOEC - Daphnia magna (Water flea) - 0,001 mg/l - 48 h

EC50 - Daphnia magna (Water flea) - 0,7 &#956;g/l - 48 h

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

Bioaccumulation Cyprinus carpio (Carp) - 14 d

- 18 &#956;g/l

Bioconcentration factor (BCF): 120

### 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 with long lasting effects.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

##### Product

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

Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

#### 14.1 UN number

ADR/RID: 2810 IMDG: 2810 IATA: 2810

#### 14.2 UN proper shipping name

ADR/RID: TOXIC LIQUID, ORGANIC, N.O.S. (Diazinon)

IMDG: TOXIC LIQUID, ORGANIC, N.O.S. (Diazinon)

IATA: Toxic liquid, organic, n.o.s. (Diazinon)

#### 14.3 Transport hazard class(es)

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

#### 14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

#### 14.5 Environmental hazards

ADR/RID: yes 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!