

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 24 Aug 2022

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

1.1. Product name:

(Z)-Dimethylvinphos

1.1. Catalog No.:

680813

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

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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
GHS06 skull and crossbones
Acute Tox. 3 H301 Toxic if swallowed.
GHS09 environment
Acute 1 H400 Very toxic to acutatic life. Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. GHS07 Acute Tox. 4 H332 Harmful if inhaled.

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.

· Hazard pictograms GHS06 GHS09

· Signal word Danger

Hazard statements

H301 Toxic if swallowed. H332 Harmful if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see on this label).
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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 67628-93-7 Dimethylvinphos (Z)

- Identification number(s) None
 Additional information: For the wording of the listed risk phrases refer to section 16.

3.1.1. Formula

C10H10Cl3O4P

3.1.2. Molecular Weight (g/mol)

331.52



67628-93-7

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.

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

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms

persist. In case of unconsciousness place patient in recovery position for transport. Seek medical treatment.

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

Rinse mouth. Do not induce vomiting.
Call for a doctor immediately.

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

5.1 Extinguishing media
Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
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 Avoid formation of dust.

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:

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

Ensure good ventilation/extraction at the workplace.

Remove dust thoroughly.

Store in cool, dry place in tightly closed receptacles.

- Information about fire and explosion protection: No special measures required.
 7.2 Conditions for safe storage, including any incompatibilities

· Requirements to be met by storerooms and receptacles:

Store in a cool location.

Please refer to the manufacturers certificate for specific storage and transport temperature conditions.

Store only in the original receptacle.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

- Information about storage in one common storage facility: Store away from foodstuffs.
 Further information about storage conditions: Keep container tightly sealed.
 7.3 Specific end use(s) No further relevant information 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.

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.

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

- Protective gloves

 Material of gloves Fluorocarbon rubber (Viton)

 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: Solid

Colour: White

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

- Melting point/Melting range: 70 °C
 Boiling point/Boiling range: Not determined.

 Flash point: Not applicable.

 Flammability (solid, gaseous): Not determined.



Ignition temperature:

Decomposition temperature: Not determined.

Self-igniting: Not determined.

Danger of explosion: Not determined.

 Explosion limits: Lower: Not determined.

Upper: Not determined. Vapour pressure: Not applicable.
Density at 20 °C: 1.26 g/cm³
Relative density Not determined.
Vapour density Not applicable.

Evaporation rate Not applicable.
 Solubility in / Miscibility with Xylene, Acetone, Cyclohexanone water at 20 °C: 0.13 g/l
 Partition coefficient (n-octanol/water): 3.12 Log P

Viscosity:
 Dynamic: Not applicable
 Kinematic: Not applicable.
 9.2 Other information No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal conditions.

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
 Toxic if swallowed.

Harmful if inhaled.

· LD/LC50 values relevant for classification: Oral LD50 155 mg/kg (rat) Inhalative LC50/4 h >4.9 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 Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

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 Based on available data, the classification criteria are not met.

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: LC50/24 0.00003 mg/L (daphnia)

0.03 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) (Self-assessment): 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-NUMBER
 ADR, IMDG, IATA UN2811
 ADR 2811 TOXIC SOLID, ORGANIC, N.O.S. (Dimethylvinphos (Z)), ENVIRONMENTALLY HAZARDOUS
 IMDG TOXIC SOLID, ORGANIC, N.O.S. (Dimethylvinphos (Z)), MARINE POLLUTANT

- · IATA_Toxic solids, organic, n.o.s. (Dimethylvinphos (Z))
- 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 III
- 14.5 Environmental hazards: Environmentally hazardous substance, solid; Marine

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



· Transport/Additional information:

ADR

· Limited quantities (LQ) 5 kg

Transport category 2
 Tunnel restriction code E

· UN "Model Regulation": UN 2 8 1 1 TOXIC SOLID, ORGANIC, N.O. S . (D I M E T H Y L V I N P H O S (Z)) , 6 . 1 , I I I , ENVIRONMENTALLY HAZARDOUS

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 Philippines Inventory of Chemicals and Chemical Substances Substance is not listed.
 Australian Inventory of Chemical Substances Substance is not listed.
 Standard for the Uniform Scheduling of Medicines and Poisons Substance is not listed.
 Directive 2012/18/EU

- Directive 2012/18/EU
 Named dargerous substances ANNEX I Substance is not listed.
 Seveso category E1 Hazardous to the Aquatic Environment
 Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
 Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
 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!