

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 24 May 2023

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

1.1. Product name:

Diclofop-methyl

1.1. Catalog No.:

684853

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 Regulation (EC) No 1272/2008
Acute toxicity - Oral Category 4 - (H302)
Acute toxicity - Dermal Category 3 - (H311)
Skin sensitisation Category 1 - (H317)
Acute aquatic toxicity Category 1 - (H400)
Chronic aquatic toxicity Category 1 - (H410)

2.2. Label elements

2.2.1. Pictogram





2.2.2.

2.2. Label elements Signal word Danger



Hazard statements

H302 - Harmful if swallowed H311 - Toxic in contact with skin

H317 - May cause an allergic skin reaction H410 - Very toxic to aquatic life with long lasting effects Precautionary Statements - EU (§28, 1272/2008)

P264 - Wash face, hands and any exposed skin thoroughly after handling P273 - Avoid release to the environment P280 - Wear protective gloves and protective clothing

P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. This product does not contain any known or suspected endocrine disruptors.

Chemical name: Diclofop-methyl

EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation:
EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances: -

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical name: Diclofop-methyl 51338-27-3

Weight-%: 100
REACH registration number: EC No (EU Index No): 257-141-8
Classification according to Regulation (EC) No. 1272/2008 [CLP]:
Acute Tox. 4 (H302)
Acute Tox. 3 (H311)
Skin Sens. 1 (H317)
Acute 1 (H400)

Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

Specific concentration limit (SCL) M-Factor

M-Factor (long-term)

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture

based on its components Chemical name: Diclofop-methyl 51338-27-3

Chemical name: Diclofop-methyl 51338-27-3
Oral LD50 mg/kg: 512
Dermal LD50 mg/kg: 5000
Inhalation LC50 - 4 hour - dust/mist - mg/L: No data available
Inhalation LC50 - 4 hour - vapour - mg/L: No data available
Inhalation LC50 - 4 hour - gas - ppm: No data available
Inhalation LC50 - 4 hour - gas - ppm: No data available
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

3.1.1. Formula

C16H14Cl2O4



3.1.2. Molecular Weight (g/mol)

341.19

3.1.3. CAS-No.

51338-27-3

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

Inhalation Remove to fresh air.

Eye contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Skin contact Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects, both acute and delayed Symptoms Itching. Rashes. Hives.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Product is or contains a sensitiser. May cause sensitisation by skin contact.

5.3. Advice for firefighters

Special protective equipment and

precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.



6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8. For emergency responders Use personal protection recommended in Section 8. 6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling
Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

Do not eat, drink or smoke when using this product.

General hygiene considerations Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Regular cleaning of equipment, work area and clothing is recommended. Wash hands
before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Please refer to the manufacturers certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Hand protection Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear

protective Viton(TM) gloves. Skin and body protection Long sleeved clothing. Chemical resistant apron. Wear suitable protective clothing. Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Regular cleaning of equipment, work area and clothing is recommended. Wash hands before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties Physical state Solid

Appearance Crystalline Colour colourless to white

Odour Odourless

Odour threshold No information available Property Values Remarks o Method

Melting point / freezing point 39 - 41 °C None known Initial boiling point and boiling range175 - 176 °C None known Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available Flash point No data available None known Autoignition temperature No data available None known

Decomposition temperature None known pH No data available None known

pH No data available None known pH (as aqueous solution) No data available No information available Kinematic viscosity No data available None known Dynamic viscosity No data available None known Water solubility Insoluble in water None known Solubility(ies) No data available None known Partition coefficient 4.8 None known Vapour pressure No data available None known Relative density 1.3 g/cm3 None known Bulk density No data available Liquid Density No data available Relative vapour density No data available Relative vapour density No data available None known Particle characteristics

Particle characteristics

Particle Size No information available

Particle Size Distribution No information available

9.2. Other information

Molecular weight 341.19
Molecular formula C16 H14 Cl2 O4

9.2.1. Information with regards to physical hazard classes

Not applicable 9.2.2. Other safety characteristics

No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity
Reactivity No information available.
10.2. Chemical stability
Stability Stable under normal conditions.

Explosion data
Sensitivity to mechanical impact None.
Sensitivity to static discharge None.
10.3. Possibility of hazardous reactions
Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.



Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons. (based on components). Toxic in contact with skin.
Ingestion Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics Symptoms Itching. Rashes. Hives. Numerical measures of toxicity

Acute toxicity
Component Information

Component Information
Chemical name: Diclofop-methyl
Oral LD50 = 512 mg/kg (Rat)
Dermal LD50 640 mg/kg (Rabbit)
Inhalation LC50 = 8300 mg/m3 (Rat) 4 h
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation No information available.
Respiratory or skin sensitisation May cause an allergic skin reaction.
Germ cell mutagenicity No information available.
Carcinogenicity No information available.
Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.
11.2. Information on other hazards

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity
Ecotoxicity Very toxic to aquatic life with long lasting effects.
Chemical name: Diclofop-methyl
Algae/aquatic plants: Fish: LC50: 0.44-0.65mg/L (96h, Oncorhynchus mykiss)

Fish: LC50: 0.44-0.65mg/L (96h, Oncorhynchus mykiss)
Toxicity to microorganisms: Crustacea: EC50:0.19-0.27mg/L (48h, Daphnia magna)
12.2. Persistence and degradability
Persistence and degradability No information available.
12.3. Bioaccumulative potential
Bioaccumulation There is no data for this product.
Component Information
Chemical name: Diclofop-methyl
Partition coefficient: 4.8
12.4. Mobility in soil
Mobility in soil No information available.
12.5. Results of PBT and vPvB assessment
PBT and vPvB assessment No information available.
12.6. Endocrine disrupting properties

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available. 12.7. Other adverse effects

No information available.



13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods Waste from residues/unused

products
Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

14.1 UN number or ID number UN2761
14.2 UN proper shipping name Organochlorine pesticide, solid, toxic (Diclofop-methyl (ISO))
14.3 Transport hazard class(es) 6.1

14.4 Packing group III
Description UN2761, Organochlorine pesticide, solid, toxic (Diclofop-methyl (ISO)), 6.1, III
14.5 Environmental hazards Yes

14.6 Special precautions for user Special Provisions A3, A5

ERG Code 6L

IMDG

14.1 UN number or ID number UN2761 14.2 UN proper shipping name Organochlorine pesticide, solid, toxic (Diclofop-methyl (ISO))

14.3 Transport hazard class(es) 6.1

14.4 Packing group III
Description UN2761, Organochlorine pesticide, solid, toxic (Diclofop-methyl (ISO)), 6.1, III, Marine

pollutant

14.5 Marine pollutant P Environmental hazards Yes

14.6 Special precautions for user

Special Provisions 61, 223, 274 EmS-No F-A, S-A No information available

14.7 Maritime transport in bulk

according to IMO instruments
No information available

RID

14.1 UN number or ID number UN2761

14.2 UN proper shipping name Organochlorine pesticide, solid, toxic (Diclofop-methyl (ISO)) 14.3 Transport hazard class(es) 6.1

14.3 Halisport Hazard Glass(es) 3.1

14.4 Packing group III

Description UN2761, Organochlorine pesticide, solid, toxic (Diclofop-methyl (ISO)), 6.1, III,

Environmentally Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user Special Provisions 61, 274, 648 Classification code T7

ADR

14.1 UN number or ID number UN2761

14.2 UN proper shipping name Organochlorine pesticide, solid, toxic (Diclofop-methyl (ISO))
14.3 Transport hazard class(es) 6.1
14.4 Packing group III
Description UN2761, Organochlorine pesticide, solid, toxic (Diclofop-methyl (ISO)), 6.1, III, (E),

Environmentally Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user

Special Provisions 61, 274, 648

Classification code T7

Tunnel restriction code (E)



15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Water hazard class (WGK) obviously hazardous to water (WGK 2)
Poland SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification. Inhaling and packaging of substances and mixtures. 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014). European Union European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII) DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)
E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable EU - Plant Protection Products (1107/2009/EC)

Chemical name: Diclofop-methyl 51338-27-3
EU - Plant Protection Products (1107/2009/EC): Plant protection agent

International Inventories

TSCA Complies under research and development exemption or is regulated by a different

SCA Compiles under research and development exemption or is government agency.
DSL/NDSL Contact supplier for inventory compliance status
EINECS/ELINCS Contact supplier for inventory compliance status
ENCS Contact supplier for inventory compliance status
IECSC Contact supplier for inventory compliance status
KECL Contact supplier for inventory compliance status
PICCS Contact supplier for inventory compliance status
AIIC Contact supplier for inventory compliance status

AIIC Contact supplier for inventory compliance status

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances 15.2. Chemical safety assessment

Chemical Safety Report A Chemical Safety Assessment is not required for this substance



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!