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SECTION 12: Ecological information (....)

- M factor (Chronic) Pirimiphos-methyl = 1 000

Substances

Chemical Name	LC ₅₀ (fish)	EC ₅₀ (aquatic invertebrates)	EC ₅₀ (aquatic algae)
Kaolin	(4 days) > 1 000 mg/L	(48 h) > 1 000 mg/L	(72 h) > 1 000 mg/L
Pirimiphos-methyl (ISO)	(4 days) 404 µg/L	(48 h) 314 ng/L	(72 h) 3.38 mg/L
Potassium chlorate	(4 days) 1 g/L	(48 h) 1 g/L	(72 h) 1.9 - 500 mg/L
Silane, dichlorodimethyl-, reaction products with silica	(4 days) 1.033 - 5 g/L	(48 h) 5 g/L	(72 h) 173.1 - 500 mg/L
4-methylpentan-2-one; isobutyl methyl ketone	(4 days) 179 mg/L	(48 h) 200 mg/L	No data available
Quartz (crystalline silica)	No data available	No data available	No data available

12.2 Persistence and degradability

Substances

Chemical Name	Biodegradation
Kaolin	Not applicable, inorganic
Pirimiphos-methyl (ISO)	Half-life in water = 4 - 6 days Product is not persistent
Potassium chlorate	Under test conditions no biodegradation observed (100%)
Silane, dichlorodimethyl-, reaction products with silica	Not applicable, inorganic
4-methylpentan-2-one; isobutyl methyl ketone	Readily biodegradable in water (100%)
Quartz (crystalline silica)	Not applicable, inorganic

12.3 Bioaccumulative potential

- Chlorate is converted to chlorite in plants, which accumulates in cells until toxic concentrations are reached, when the plant dies

Substances

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
Kaolin	Not applicable, inorganic	Not applicable, inorganic
Pirimiphos-methyl (ISO)	High bioaccumulation potential	Log Pow 3.9 @ 20 °C and pH4 Log Pow 4.2 @ 20 °C and pH 5 - 7
Potassium chlorate	Low potential for bioaccumulation (Log Kow < 3)	-2.9 @ 20 °C and pH 0
Silane, dichlorodimethyl-, reaction products with silica	Bioaccumulation is not expected	Log Pow 0.53 @ 25 °C
4-methylpentan-2-one; isobutyl methyl ketone	Low potential for bioaccumulation (Log Kow < 3)	1.9 @ 20 °C and pH 6.7
Quartz (crystalline silica)	No data available	No data available

12.4 Mobility in soil

- Partially soluble in water

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SECTION 12: Ecological information (....)

Substances

Chemical Name	Adsorption/desorption	Mobility
Kaolin	Insoluble in water	No data available
Pirimiphos-methyl (ISO)	Dissipation time: 8.3 days Percentage dissipation: 50 % (DT50) Product is not persistent	Low mobility in soil
Potassium chlorate	Low potential for adsorption	Soluble in water
Silane, dichlorodimethyl-, reaction products with silica	No data available	No data available
4-methylpentan- 2-one; isobutyl methyl ketone	Low potential for adsorption	Soluble in water
Quartz (crystalline silica)	No data available	No data available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

12.6 Endocrine disrupting properties

- Does not contain any substances with endocrine disrupting properties

12.7 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Dispose of product and packaging in accordance with national waste regulations
- This material and/or its container must be disposed of as hazardous waste

13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
- Hazardous Property Code(s): HP 5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity; HP 6 Acute Toxicity; HP 7 Carcinogenic; HP 14 Ecotoxic

SECTION 14: Transport information

UN 3077 and UN 3082, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5L/kg or less, are not subject to the provisions of ADR, RID, IMDG or IATA, provided the package meets the general packing quality provisions.



14.1 UN number or ID number

- UN No.: 3077

14.2 UN proper shipping name

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Pirimiphos-methyl)

14.3 Transport hazard class(es)

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SECTION 14: Transport information (....)

- Hazard Class: 9
- 14.4 Packing group
- Packing Group: III
- 14.5 Environmental hazards
- Marine Pollutant
- 14.6 Special precautions for user
- Not Classified
- 14.7 Maritime transport in bulk according to IMO instruments
- Not applicable
- 14.8 Road/Rail (ADR/RID)
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Pirimiphos-methyl)
 - ADR UN No.: 3077
 - ADR Hazard Class: 9
 - ADR Packing Group: III
 - Tunnel Code: (-)
- 14.9 Sea (IMDG)
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Pirimiphos-methyl)
 - IMDG UN No.: 3077
 - IMDG Hazard Class: 9
 - IMDG Packing Group: III
- 14.10 Air (ICAO/IATA)
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Pirimiphos-methyl)
 - ICAO UN No.: 3077
 - ICAO Hazard Class: 9
 - ICAO Packing Group: III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 (as amended by Regulation (EU) 2020/878) and UK REACH
 - The GB Classification, Labelling and Packaging Regulation (GB CLP) applies in Great Britain
 - Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe
 - The COSHH Regulations apply in the UK
 - Use plant protection products safely. Always read the label and product information before use
 - UN 3077 and UN 3082, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5L/kg or less, are not subject to the provisions of ADR, RID, IMDG or IATA, provided the package meets the general packing quality provisions.

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SECTION 15: Regulatory information (....)

- Pirimiphos-methyl is listed in Annex III of REACH as # Harmonised classification for acute toxicity: The substance is listed in Annex VI of CLP as: Acute Tox. 4 # Harmonised classification for aquatic toxicity: The substance is listed in Annex VI of CLP as: Aquatic Acute 1; The substance is listed in Annex VI of CLP as: Aquatic Chronic 1 # Suspected carcinogen: The Toolbox profiler 'Carcinogenicity (genotox and nongenotox) alerts by ISS' gives an alert for carcinogenicity # Suspected hazardous to the aquatic environment: DEMETRA Daphnia Magna toxicity model in VEGA (Q)SAR platform predicts that the chemical has a 48h EC50 of 0 mg/L (EXPERIMENTAL value); EPA Daphnia Magna toxicity model in VEGA (Q)SAR platform predicts that the chemical has a 48h EC50 of 0.0002 mg/L (EXPERIMENTAL value); Fathead Minnow toxicity model (EPA) in VEGA (Q)SAR platform predicts that the chemical has a 96h LC50 of 2.47 mg/L (EXPERIMENTAL value); The Danish QSAR database contains information indicating that the substance has a 96h LC50 to fish of <1 mg/L; The Danish QSAR database contains information indicating that the substance has a 48h EC50 to Daphnia of <1 mg/L; The Danish QSAR database contains information indicating that the substance has a 96h EC50 to green algae of 1.13 mg/L # Suspected mutagen: The Toolbox profiler 'DNA alerts for AMES, MN and CA by OASIS v.1.3' gives an alert for mutagenicity; CAESAR Mutagenicity model in VEGA (Q)SAR platform predicts that the chemical is Mutagen (moderate reliability) # Suspected persistent in the environment: Soil OASIS database in the Toolbox contains at least one experimental data from biodegradation in soil test reporting a value equal or greater than 120 days; The Danish QSAR database contains information indicating that the substance is predicted as non readily biodegradable # Suspected respiratory sensitiser: The Toolbox profiler 'Respiratory sensitisation' gives an alert for respiratory sensitisation # Suspected skin sensitiser: The Toolbox profiler 'Protein binding alerts for skin sensitization by OASIS v1.3' gives an alert for skin sensitisation # Suspected toxic for reproduction: Developmental/Reproductive Toxicity library (PG) in VEGA (Q)SAR platform predicts that the chemical is Toxicant (moderate reliability)
- Quartz (crystalline silica) is listed in Annex III of REACH as # Suspected carcinogen: IARC monographs classified the substance as carcinogenic or probably/possibly carcinogenic # Suspected mutagen: The outcome in CTA assay is positive according to ISSCTA
- Restrictions on use according to Annex XVII to REACH Regulation: Not applicable
- Seveso III Directive (2012/18/EU, Dangerous Substances in Annex I:
 - Class H3 (STOT SE 1), LT 50 te, UT 200 te
 - Class E1 (Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1), LT 100 te, UT 200 te

15.2 Chemical safety assessment

- A REACH chemical safety assessment has been carried out for some of the ingredients in this product

SECTION 16: Other information

Information contained in this data sheet is accurate to the best of our knowledge and belief and is given in good faith. It is intended to describe our product from the point of view of safety requirements and is not intended to guarantee any particular properties

Sources of data: Information from published literature and supplier safety data sheets

Revision No. 5.0.0. Revised October 2021.

Changes made: Revised classification and revisions to all sections to conform to latest version of REACH Annex II

Training advice

Workers must be informed of the presence of hazardous ingredients and trained in the proper use and handling of this product as required under applicable regulations

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SECTION 16: Other information (....)

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

- Acute Tox. 4, H332: Classification based on test data
- Carc. 2, H351: Classification based on calculation and concentration thresholds
- STOT SE 1, H370: Classification based on calculation and concentration thresholds
- STOT RE 1, H372: Classification based on calculation and concentration thresholds
- Aquatic Acute 1, H400: Classification based on calculation and concentration thresholds
- Aquatic Chronic 1, H410: Classification based on calculation and concentration thresholds

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- H225: Highly flammable liquid and vapour.
- H271: May cause fire or explosion; strong oxidiser
- H302: Harmful if swallowed
- H332: Harmful if inhaled
- H336: May cause drowsiness or dizziness
- H351: Suspected of causing cancer
- H370: Causes damage to organs
- H372: Causes damage to organs through prolonged or repeated exposure
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long lasting effects
- H411: Toxic to aquatic life with long lasting effects
- EUH066: Repeated exposure may cause skin dryness or cracking
- EUH401: To avoid risks to human health and the environment, comply with the instructions for use

Acronyms

- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC₅₀: Effective Concentration, 50%
- GHS: Globally Harmonised System
- IARC: International Agency for Research on Cancer
- LC₅₀: Lethal Concentration, 50%
- LD₅₀: Lethal Dose, 50%
- NOAEC: No observed adverse effect concentration
- NOAEL: No observed adverse effect level
- NOEC: No observed effect concentration
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- SCL: Specific Concentration Limit
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

--- end of safety datasheet ---