



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

SAFETY DATA SHEET

WOODWORM KILLER (WB)

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

: WOODWORM KILLER (WB) **GHS** product identifier

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product use : Waterborne preserver.

1.3. Details of the supplier of the safety data sheet

ICI Paints AkzoNobel, Wexham Road,

Slough, Berkshire, SL2 5DS, U.K.

Tel.: +44 (0) 333 222 71 71

www.cuprinol.co.uk

e-mail address of person

responsible for this SDS

: cuprinol.advice@akzonobel.com

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number : +44 (0)344 892 0111

Supplier

Telephone number : Emergency Telephone : Slough +44 (0) 1753 550000

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

WOODWORM KILLER (WB)

SECTION 2: Hazards identification

Hazard pictograms

Signal word : Warning

Hazard statements: H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

General: P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

Prevention: P273 - Avoid release to the environment.

Response : P391 - Collect spillage.

Storage : Not applicable.

Disposal: P501 - Dispose of contents and container in accordance with all local, regional,

national or international regulations.

Supplemental label

elements

: Contains MBIT. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according

to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
(2-methoxymethylethoxy) propanol	REACH #: 01-2119450011-60 EC: 252-104-2 CAS: 34590-94-8	≤5	Not classified.	-	[2]
alpha-cyano- 3-phenoxybenzyl 3- (2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate cis/trans +/- 40/60	EC: 257-842-9 CAS: 52315-07-8	≤0,1	Acute Tox. 4, H302 Acute Tox. 4, H332 STOT SE 3, H335 STOT RE 2, H373 (nervous system)	ATE [Oral] = 500 mg/kg ATE [Inhalation (dusts and mists)] = 3,3 mg/l	[1]

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SECTION 3: Composition/information on ingredients

			Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 100000 M [Chronic] = 100000	
MBIT	CAS: 2527-66-4	<0,0015	Acute Tox. 3, H301 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 EUH071 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 175 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (dusts and mists)] = 1,5 mg/l Skin Sens. 1, H317: C ≥ 0,0015% M [Acute] = 1	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting

unless directed to do so by medical personnel.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

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SECTION 4: First aid measures

Contains MBIT. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data. Skin contact : No specific data. : No specific data. Ingestion

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion

products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide

5.3 Advice for firefighters

Special protective actions

for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

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SECTION 6: Accidental release measures

6.3 Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8.2 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
E1	100 tonne	200 tonne

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
(2-methoxymethylethoxy)propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.
	TWA: 308 mg/m³ 8 hours. TWA: 50 ppm 8 hours.
alpha-cyano-3-phenoxybenzyl 3- (2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate cis/trans	EH40/2005 WELs (United Kingdom (UK), 1/2020). [cyanides, except HCN, cyanogen and cyanogen chloride] Absorbed through skin.
+/- 40/60	TWA: 5 mg/m³, (as CN) 8 hours.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
(2-methoxymethylethoxy)propanol	DNEL	Long term Oral	36 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	37,2 mg/m³	General population	Systemic
	DNEL	Long term Dermal	121 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	283 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	308 mg/m³	Workers	Systemic

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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SECTION 8: Exposure controls/personal protection

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton @ or Nitrile, thickness ≥ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended.

Recommended gloves: Nitrile, thickness ≥ 0.12 mm.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Color : Various: See label.

Odor : Not available.
Odor threshold : Not available.
Melting point/freezing point : Not available.
Boiling point, initial boiling point, and boiling range

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SECTION 9: Physical and chemical properties

Flammability Lower and upper explosion

Not available. : Not available.

limit

Flash point

: Not available.

Auto-ignition temperature

Ingredient name	°C	°F	Method
(2-methoxymethylethoxy)propanol	207	404,6	EU A.15
3-butoxypropan-2-ol	260	500	EU A.15
2,4,7,9-tetramethyldec-5-yne-4,7-diol	380	716	

Decomposition temperature

: Not available.

: 7,5 [Conc. (% w/w): 100%] [DIN EN 1262]

Viscosity

: Kinematic (room temperature): 10 mm²/s [DIN EN ISO 3219]

Kinematic (40°C): 6 mm²/s [DIN EN ISO 3219]

Solubility(ies)

Media	Result
cold water	Soluble [OESO (TG 105)]

Partition coefficient: n-octanol/ : Not applicable.

water

Vapor pressure

	Vapor Pressure at 20°C			Va	por pressur	e at 50°C
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Water	23,8	3,2				
3-butoxypropan-2-ol	1,05	0,14	OECD 104			
Cremophor EL	<0,1	<0,013				

Relative density : 1

Density : 0,999 g/cm³ [DIN EN ISO 2811-1]

Vapor density : Not available.

Particle characteristics

Median particle size : Not applicable.

Percentage of particles with aerodynamic diameter ≤ 10

μm

: 0

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

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SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains MBIT. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
(2-methoxymethylethoxy) propanol	LD50 Oral	Rat	5400 uL/kg	-
alpha-cyano- 3-phenoxybenzyl 3- (2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate cis/trans +/- 40/60	LC50 Inhalation Vapor	Rat	2,5 g/m³	4 hours
MBIT	LD50 Dermal LD50 Dermal LD50 Oral	Rabbit Rat Rat	2460 mg/kg 1100 mg/kg 175 mg/kg	- - -

Conclusion/Summary

: Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
alpha-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate cis/trans +/-40/60	500	N/A	N/A	N/A	3,3
MBIT	175	1100	N/A	N/A	1,5

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
(2-methoxymethylethoxy) propanol	Eyes - Mild irritant	Human	-	8 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
MBIT	Skin - Visible necrosis	Rabbit	-	4 hours	14 days

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SECTION 11: Toxicological information

Conclusion/Summary

: Not available.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
MBIT	skin	Guinea pig	Sensitizing
	skin	Mouse	Sensitizing

Conclusion/Summary

: Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
alpha-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate cis/trans +/- 40/60	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
alpha-cyano-3-phenoxybenzyl 3-(2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate cis/trans +/- 40/60	Category 2	-	nervous system

Aspiration hazard

Not available.

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate

: Not available.

effects

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SECTION 11: Toxicological information

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

No additional information.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

3-phenoxybenzyl 3- (2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate cis/trans +/- 40/60 Acute EC50 0,1 μg/l Fresh water Acute IC50 71,4 μg/l Fresh water Acute LC50 0,024 μg/l Fresh water Acute LC50 0,024 μg/l Fresh water Chronic IC10 64,65 μg/l Marine water Chronic NOEC 50 μg/l Fresh water Chronic NOEC 0,0002 ng/L Fresh water Chronic NOEC 0,0003 mg/l MBIT Acute EC50 0,48 mg/l Acute EC50 0,92 ppm Fresh water Daphnia - Daphnia magna - Exponential growth phase Aquatic plants - Ceratophyllum demersum Daphnia - Daphnia magna - Neonate Fish Algae - Skeletonema costatum Crustaceans - Hyalella curvispina Algae - Chattonella marina - Exponential growth phase Aquatic plants - Ceratophyllum demersum Daphnia - Daphnia magna - Neonate Fish Acute EC50 0,7 ppm Marine water Acute EC50 0,48 mg/l Acute EC50 0,92 ppm Fresh water Daphnia - Daphnia magna - Algae - Skeletonema costatum Crustaceans - Americamysis bahia Daphnia - Daphnia magna - 48 h	duct/ingredient name	Result	Species	Exposure
Acute IC50 71,4 μg/I Fresh water Acute LC50 0,024 μg/I Fresh water Acute LC50 0,024 μg/I Fresh water Chronic IC10 64,65 μg/I Marine water Chronic NOEC 50 μg/I Fresh water Chronic NOEC 0,0002 ng/L Fresh water Chronic NOEC 0,0003 mg/I MBIT Acute EC50 0,48 mg/I Acute EC50 0,92 ppm Fresh water Neonate Algae - Chattonella marina - Exponential growth phase Aquatic plants - Ceratophyllum demersum Daphnia - Daphnia magna - Neonate Fish Algae - Skeletonema costatum Algae - Skeletonema costatum Crustaceans - Americamysis bahia Daphnia - Daphnia magna 48 high curvispina Algae - Chattonella marina - Exponential growth phase Adad curvispina Algae - Chattonella marina - Exponential growth phase Adad curvispina Algae - Chattonella marina - Exponential growth phase Aquatic plants - Ceratophyllum demersum Adad curvispina Algae - Chattonella marina - Exponential growth phase Aquatic plants - Ceratophyllum demersum Adad curvispina Adad curvispina Adad curvispina Adad curvispina Adad curvispina Algae - Chattonella marina - Exponential growth phase Acute Chronic NOEC 0,0002 pg/L Fresh water	henoxybenzyl 3- 2-dichlorovinyl) dimethylcyclopropanecarboxylate	Acute EC50 0,0003 mg/l	Daphnia	48 hours
Acute LC50 0,024 μg/l Fresh water Crustaceans - Hyalella curvispina Chronic IC10 64,65 μg/l Marine water Chronic NOEC 50 μg/l Fresh water Chronic NOEC 0,0002 ng/L Fresh water Chronic NOEC 0,0003 mg/l MBIT Acute EC50 0,7 ppm Marine water Acute EC50 0,92 ppm Fresh water Exponential growth phase Crustaceans - Hyalella Algae - Chattonella marina - Exponential growth phase Algae - Seletonella marina - Neonate Fish Acute EC50 0,7 ppm Marine water Algae - Skeletonema costatum Ocrustaceans - Americamysis Shahia Acute EC50 0,92 ppm Fresh water Daphnia - Daphnia magna 48 h		Acute EC50 0,1 μg/l Fresh water		48 hours
Chronic IC10 64,65 µg/l Marine water Chronic NOEC 50 µg/l Fresh water Chronic NOEC 0,0002 ng/L Fresh water Chronic NOEC 0,0003 mg/l MBIT Acute EC50 0,7 ppm Marine water Acute EC50 0,92 ppm Fresh water Chronic NOEC 0,092 ppm Fresh water Curvispina Algae - Chattonella marina - Exponential growth phase Aquatic plants - Ceratophyllum demersum Daphnia - Daphnia magna - Neonate Fish Algae - Skeletonema costatum Grustaceans - Americamysis bahia Acute EC50 0,92 ppm Fresh water Algae - Skeletonema costatum Daphnia - Daphnia magna 48 h		Acute IC50 71,4 μg/l Fresh water		96 hours
Chronic NOEC 50 µg/l Fresh water Chronic NOEC 0,0002 ng/L Fresh water Chronic NOEC 0,0003 mg/l MBIT Chronic NOEC 0,0003 mg/l Acute EC50 0,7 ppm Marine water Acute EC50 0,48 mg/l Acute EC50 0,92 ppm Fresh water Chronic NOEC 50 µg/l Fresh Water Chronic NOEC 0,0003 mg/l Acute EC50 0,92 ppm Fresh water Exponential growth phase Aquatic plants - Ceratophyllum demersum Daphnia - Daphnia magna - 21 demension Neonate Fish Algae - Skeletonema costatum Crustaceans - Americamysis bahia Daphnia - Daphnia magna 48 here		Acute LC50 0,024 μg/l Fresh water	Crustaceans - Hyalella	48 hours
Chronic NOEC 0,0002 ng/L Fresh water Chronic NOEC 0,0003 mg/l MBIT Acute EC50 0,7 ppm Marine water Acute EC50 0,48 mg/l Acute EC50 0,92 ppm Fresh water Acute EC50 0,92 ppm Fresh water Chronic NOEC 0,00003 mg/l Acute EC50 0,92 ppm Fresh water Daphnia - Daphnia magna demersum Daphnia - Daphnia magna - Daphnia magna 21 d. Acute EC50 0,00003 mg/l Fish Algae - Skeletonema costatum Crustaceans - Americamysis bahia Daphnia - Daphnia magna 48 h		Chronic IC10 64,65 µg/l Marine water		96 hours
water Chronic NOEC 0,00003 mg/l MBIT Acute EC50 0,7 ppm Marine water Acute EC50 0,48 mg/l Acute EC50 0,92 ppm Fresh water Daphnia - Daphnia magna Acute EC50 0,92 ppm Fresh water		Chronic NOEC 50 μg/l Fresh water	Aquatic plants - Ceratophyllum	4 days
MBIT Acute EC50 0,7 ppm Marine water Acute EC50 0,48 mg/l Acute EC50 0,92 ppm Fresh water				21 days
MBIT Acute EC50 0,7 ppm Marine water Acute EC50 0,48 mg/l Acute EC50 0,92 ppm Fresh water Algae - Skeletonema costatum Crustaceans - Americamysis bahia Daphnia - Daphnia magna 48 h	ļ	Chronic NOEC 0,00003 mg/l	Fish	34 days
Acute EC50 0,48 mg/l Crustaceans - Americamysis 96 h bahia Acute EC50 0,92 ppm Fresh water Daphnia magna 48 h	IT T		Algae - Skeletonema costatum	96 hours
			Crustaceans - Americamysis	96 hours
	ļ	Acute EC50 0,92 ppm Fresh water	Daphnia - Daphnia magna	48 hours
Acute LC50 1,5 ppm Marine water Fish - Cyprinodon variegatus - 196 n Juvenile (Fledgling, Hatchling, Weanling)		Acute LC50 1,5 ppm Marine water	Fish - Cyprinodon variegatus - Juvenile (Fledgling, Hatchling,	96 hours
		Acute LC50 0,24 ppm Fresh water	3 7	96 hours

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SECTION 12: Ecological information

•		-	
		Juvenile (Fledgling, Hatchling,	
		Weanling)	
	Chronic NOEC 0,012 mg/l	Algae - Pseudokirchneriella	48 hours
	_	subcapitata	
	Chronic NOEC 0,42 mg/l	Daphnia - daphnia magna	21 days
	Chronic NOEC 0,16 mg/l	Fish - Pimephales promelas	32 days
	Chronic NOEC 0,16 ppm	Fish - Pimephales promelas	32 days

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
MBIT	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
(2-methoxymethylethoxy) propanol	0,004	-	low
alpha-cyano- 3-phenoxybenzyl 3- (2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate cis/trans +/- 40/60	6,3	-	high

12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

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SECTION 13: Disposal considerations

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste.

Disposal considerations

: Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no

longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Disposal considerations

: Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers.

Empty containers must be scrapped or reconditioned.

Dispose of containers contaminated by the product in accordance with local or

national legal provisions.

Special precautions

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG
14.1 UN number or ID number	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-cyano- 3-phenoxybenzyl 3-(2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate cis/trans +/- 40/60)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alpha-cyano- 3-phenoxybenzyl 3-(2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate cis/trans +/- 40/60)
14.3 Transport hazard class(es)	9	9
14.4 Packing group	III	III
14.5 Environmental hazards	Yes.	Marine Pollutant(s): alpha-cyano-3-phenoxybenzyl 3- (2,2-dichlorovinyl) -2,2-dimethylcyclopropanecarboxylate cis/trans +/- 40/60

Additional information

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SECTION 14: Transport information

ADR/RID

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Tunnel code (-)

IMDG : Emergency schedules F-A, S-F

> This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2

and 4.1.1.4 to 4.1.1.8.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk

according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

UK (GB) /REACH

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture. placing on the market and use of certain dangerous substances, mixtures and articles

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the

product label and/or technical data sheet for further information.

VOC for Ready-for-Use

Mixture

: Not available.

Industrial emissions (integrated pollution prevention and control) - : Not listed

Air

Industrial emissions (integrated pollution

: Not listed

prevention and control) -Water

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

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SECTION 15: Regulatory information

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

E1

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/20081

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H statements

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SECTION 16: Other information

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause 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.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 3 Acute Tox. 4	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (ACCITE) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Met. Corr. 1	CORROSIVE TO METALS - Category 1
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED
OTOT RE 2	EXPOSURE) - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
0.0.00	Category 3
	Category C

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Notice to reader

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Safety Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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