

SAFETY DATA SHEET

Pesticide Analyzer Checkout Solution, Part Number 5190-0468

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

1.1 Product identifier

Product name : Pesticide Analyzer Checkout Solution, Part Number 5190-0468
Part no. : 5190-0468

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

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use
5190-0468-1 Pesticide Analyzer Checkout Solution 5 x 1 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

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]

H225	FLAMMABLE LIQUIDS - Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
H336	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
H410	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 - Highly flammable liquid and vapour.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Date of issue/Date of revision : 28/03/2018

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SECTION 2: Hazards identification

- Prevention** : P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 - Avoid release to the environment.
- Response** : P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- Storage** : P405 - Store locked up.
- Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazardous ingredients** : acetone
- Supplemental label elements** : Repeated exposure may cause skin dryness or cracking.
- Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.
- Special packaging requirements**
- Tactile warning of danger** : Not applicable.

2.3 Other hazards

- Other hazards which do not result in classification** : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Acetone	EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≥90	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Dichlorvos (ISO)	EC: 200-547-7 CAS: 62-73-7 Index: 015-019-00-X	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000)	[1]
Mevinphos (ISO)	EC: 232-095-1 CAS: 7786-34-7 Index: 015-020-00-5	<0.1	Acute Tox. 2, H300 Acute Tox. 1, H310 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10000)	[1]
Ethalfuralin	EC: 259-564-3 CAS: 55283-68-6	<0.01	Acute Tox. 3, H331 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=100)	[1]
Atrazine (ISO)	EC: 217-617-8 CAS: 1912-24-9 Index: 613-068-00-7	≤0.1	Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1]
Chlorpyrifos-methyl	EC: 227-011-5 CAS: 5598-13-0 Index: 015-186-00-9	≤0.1	Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10000)	[1]

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SECTION 3: Composition/information on ingredients

Heptachlor (ISO)	EC: 200-962-3 CAS: 76-44-8 Index: 602-046-00-2	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1]
Malathion (ISO)	EC: 204-497-7 CAS: 121-75-5 Index: 015-041-00-X	≤0.1	Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1] [2]
Chlorpyrifos (ISO)	EC: 220-864-4 CAS: 2921-88-2 Index: 015-084-00-4	<0.1	Acute Tox. 3, H301 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10000)	[1] [2]
Dieldrin (ISO)	EC: 200-484-5 CAS: 60-57-1 Index: 602-049-00-9	<0.1	Acute Tox. 3, H301 Acute Tox. 1, H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1]
2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene	EC: 200-784-6 CAS: 72-55-9	<0.01	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1000)	[1]
3-Cyclohexyl-6-dimethylamino-1-methyl-1,2,3,4-tetrahydro-1,3,5-triazine-2,4-dione	EC: 257-074-4 CAS: 51235-04-2 Index: 613-132-00-4	≤0.1	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1]
Leptophos (ISO)	EC: 244-472-8 CAS: 21609-90-5 Index: 015-093-00-3	<0.1	Acute Tox. 3, H301 Acute Tox. 4, H312 STOT SE 1, H370 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)	[1]
Coumaphos (ISO)	EC: 200-285-3 CAS: 56-72-4 Index: 015-038-00-3	<0.1	Acute Tox. 2, H300 Acute Tox. 4, H312 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)	[1]
Deltamethrin (ISO)	EC: 258-256-6 CAS: 52918-63-5 Index: 607-319-00-X	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H331 Aquatic Acute 1, H400 (M=1000000) Aquatic Chronic 1, H410 (M=1000000)	[1]
3-Phenoxybenzyl-2-(4-ethoxyphenyl)-2-methylpropyl ether	EC: 407-980-2 CAS: 80844-07-1 Index: 604-091-00-3	≤0.1	Lact., H362 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=1000)	[1]
			See Section 16 for the full text of the H statements declared above.	

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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 4: First aid measures

- 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 dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. 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 precautions 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised 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 spilt 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.

6.3 Methods and material for containment and cleaning up

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SECTION 6: Accidental release measures

Methods for cleaning up : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.

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

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 vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage : Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds (in tonnes)

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000	50000
E1	100	200

7.3 Specific end use(s)

Recommendations : Industrial applications, Professional applications.

Industrial sector specific solutions : Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Acetone	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 3620 mg/m ³ 15 minutes. STEL: 1500 ppm 15 minutes. TWA: 500 ppm 8 hours. TWA: 1210 mg/m ³ 8 hours.
Malathion (ISO)	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. TWA: 10 mg/m ³ 8 hours.
Chlorpyrifos (ISO)	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 0.6 mg/m ³ 15 minutes. TWA: 0.2 mg/m ³ 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

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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.

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: chemical splash goggles.

Skin protection

SECTION 8: Exposure controls/personal 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.
- 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
- 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

9.1 Information on basic physical and chemical properties

Appearance

- Physical state** : Liquid.
- Colour** : Colourless.
- Odour** : Minty.
- Odour threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : -94.9°C
- Initial boiling point and boiling range** : 56.5°C
- Flash point** : Closed cup: -17.8°C
- Evaporation rate** : 6.06 (butyl acetate = 1)
- Flammability (solid, gas)** : Not applicable.
- Upper/lower flammability or explosive limits** : Lower: 2.6%
Upper: 12.8%
- Vapour pressure** : 53.3 kPa (@ 39.5°C)
- Vapour density** : 2 [Air = 1]
- Relative density** : 0.791
- Density** : 0.791 g/cm³
- Solubility(ies)** : Easily soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : -0.24
- Auto-ignition temperature** : 465°C
- Decomposition temperature** : Not available.
- Viscosity** : Not available.
- Explosive properties** : Not available.

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SECTION 9: Physical and chemical properties

Oxidising properties : Not available.

9.2 Other information

No additional information.

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 : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.

10.5 Incompatible materials : Reactive or incompatible with the following materials:
oxidizing materials

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 toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Acetone	LC50 Inhalation Vapour	Rat	76 mg/l	4 hours
	LD50 Oral	Rat	5800 mg/kg	-
Dichlorvos (ISO)	LC50 Inhalation Dusts and mists	Rat	15 mg/m ³	4 hours
	LD50 Dermal	Rabbit	107 mg/kg	-
	LD50 Dermal	Rat	0.75 mg/kg	-
	LD50 Oral	Rat	17 mg/kg	-
Mevinphos (ISO)	LC50 Inhalation Dusts and mists	Rat	0.125 g/m ³	1 hours
	LC50 Inhalation Vapour	Rat	14 ppm	1 hours
	LD50 Dermal	Rabbit	4700 µg/kg	-
	LD50 Dermal	Rat	4200 µg/kg	-
Ethalfuralin	LD50 Oral	Rat	3 mg/kg	-
	LC50 Inhalation Vapour	Rat	4980 mg/m ³	4 hours
	LD50 Oral	Rat	>10000 mg/kg	-
Atrazine (ISO)	LC50 Inhalation Dusts and mists	Rat	5200 mg/m ³	4 hours
	LD50 Dermal	Rabbit	7500 mg/kg	-
	LD50 Dermal	Rat	3 g/kg	-
	LD50 Oral	Rat	672 mg/kg	-
Chlorpyrifos-methyl	LD50 Dermal	Rat	3713 mg/kg	-
	LD50 Oral	Rat	1828 mg/kg	-
	LD50 Oral	Rat	1828 mg/kg	-

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SECTION 11: Toxicological information

Heptachlor (ISO)	LD50 Dermal	Rabbit	500 mg/kg	-
	LD50 Dermal	Rat	119 mg/kg	-
	LD50 Oral	Rat	40 mg/kg	-
Malathion (ISO)	LC50 Inhalation Vapour	Rat	43790 µg/m ³	4 hours
	LD50 Dermal	Rabbit	4100 mg/kg	-
	LD50 Oral	Rat	290 mg/kg	-
Chlorpyrifos (ISO)	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Dermal	Rat	202 mg/kg	-
	LD50 Oral	Rat	82 mg/kg	-
Dieldrin (ISO)	LC50 Inhalation Dusts and mists	Rat	13 mg/m ³	4 hours
	LD50 Dermal	Rabbit	250 mg/kg	-
	LD50 Dermal	Rat	56 mg/kg	-
2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene	LD50 Oral	Rat	38300 µg/kg	-
	LD50 Oral	Rat	880 mg/kg	-
	LD50 Dermal	Rabbit	>5278 mg/kg	-
3-Cyclohexyl-6-dimethylamino-1-methyl-1,2,3,4-tetrahydro-1,3,5-triazine-2,4-dione	LD50 Dermal	Rat	5278 mg/kg	-
	LD50 Oral	Rat	1690 mg/kg	-
	LD50 Dermal	Rabbit	800 mg/kg	-
Leptophos (ISO)	LD50 Dermal	Rat	44 mg/kg	-
	LD50 Oral	Rat	19 mg/kg	-
	LD50 Dermal	Rabbit	500 mg/kg	-
Coumaphos (ISO)	LD50 Dermal	Rat	860 mg/kg	-
	LD50 Oral	Rat	13 mg/kg	-
	LD50 Dermal	Rabbit	2 g/kg	-
Deltamethrin (ISO)	LD50 Oral	Rat	5.1 mg/kg	-
	LD50 Oral	Rat	>42800 mg/kg	-
	LD50 Oral	Rat	>42800 mg/kg	-
3-Phenoxybenzyl-2-(4-ethoxyphenyl)-2-methylpropyl ether	LD50 Oral	Rat	>42800 mg/kg	-
	LD50 Oral	Rat	>42800 mg/kg	-
	LD50 Oral	Rat	>42800 mg/kg	-

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acetone	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	395 milligrams	-
Atrazine (ISO)	Eyes - Severe irritant	Rabbit	-	6320 Micrograms	-
	Skin - Mild irritant	Rabbit	-	38 milligrams	-
Chlorpyrifos-methyl	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	48 milligrams	-
3-Cyclohexyl-6-dimethylamino-1-methyl-1,2,3,4-tetrahydro-1,3,5-triazine-2,4-dione	Eyes - Moderate irritant	Rabbit	-	48 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	48 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	48 milligrams	-

Skin : Repeated exposure may cause skin dryness or cracking.

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

SECTION 11: Toxicological information

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
Acetone Leptophos (ISO)	Category 3 Category 1	Not applicable. Not determined	Narcotic effects Not determined

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Atrazine (ISO) Heptachlor (ISO) Dieldrin (ISO)	Category 2 Category 2 Category 1	Not determined Not determined Not determined	Not determined Not determined Not determined

Aspiration hazard

Not available.

Information on likely routes of exposure : Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Ingestion** : Can cause central nervous system (CNS) depression.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Eye contact** : Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
- Ingestion** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

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SECTION 11: Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Other information : Adverse symptoms may include the following: Adverse symptoms may include the following: altered blood counts.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Acetone	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
Dichlorvos (ISO)	Chronic NOEC 0.1 mg/l Fresh water	Fish - Fundulus heteroclitus	4 weeks
	Acute EC50 0.066 ppb Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute IC50 110000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute IC50 398000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 0.13 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 2.5 µg/l Fresh water Chronic NOEC 239000 µg/l Fresh water	Fish - Mystus vittatus Algae - Pseudokirchneriella subcapitata	96 hours 96 hours
Mevinphos (ISO)	Chronic NOEC 6.66 µg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	21 days
	Chronic NOEC 0.109 to 0.266 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 5.2 ppb	Fish - Oncorhynchus mykiss	61 days
	Acute EC50 0.16 µg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
Ethalfuralin	Acute LC50 0.95 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 41.77 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 60 ppb Fresh water	Daphnia - Daphnia magna	48 hours
Atrazine (ISO)	Acute LC50 32 ppb Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 23.7 ppb Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.4 ppb	Fish - Oncorhynchus mykiss	50 days
	Acute EC50 0.004 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 11 µg/l Fresh water	Algae - Scenedesmus acutus	72 hours
	Acute EC50 0.0405 mg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute EC50 240 µg/l	Daphnia - Daphnia pulex	48 hours
	Acute IC50 13.4 µg/l Marine water	Aquatic plants - Zostera muelleri	72 hours

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SECTION 12: Ecological information

Chlorpyrifos-methyl	Acute LC50 373.9 µg/l Marine water	Crustaceans - Acartia tonsa - Adult	48 hours
	Acute LC50 1.25 ppm Fresh water	Fish - Barbodes carnaticus	96 hours
	Chronic IC10 1.17 µg/l Marine water	Aquatic plants - Zostera muelleri	72 hours
	Chronic NOEC 0.0005 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
Heptachlor (ISO)	Chronic NOEC 25 µg/l Fresh water	Crustaceans - Eurytemora affinis - Nauplii	21 days
	Chronic NOEC 5 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.26 ppb Fresh water	Fish - Poecilia reticulata - Adult	16 weeks
	Acute EC50 0.00028 ppm Marine water	Crustaceans - Penaeus duorarum - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
Malathion (ISO)	Acute EC50 1.11 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 12.6 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute EC50 26.7 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.00015 ppm Marine water	Crustaceans - Penaeus duorarum	48 hours
Chlorpyrifos (ISO)	Acute EC50 42 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 0.8 µg/l Marine water	Fish - Thalassoma bifasciatum	96 hours
	Acute EC50 0.5 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 0.9 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Dieldrin (ISO)	Acute LC50 11.676 ng/L Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 34 mg/l Fresh water	Algae - Euglena gracilis	72 hours
	Chronic NOEC 0.5 mg/l Marine water	Crustaceans - Scylla serrata	3 weeks
	Chronic NOEC 0.06 ppb Fresh water	Daphnia - Daphnia magna	21 days
2,2-bis(p-Chlorophenyl)-1,1-dichloroethylene	Chronic NOEC 21 ppb	Fish - Oncorhynchus mykiss	97 days
	Acute EC50 138 µg/l Marine water	Algae - Isochrysis galbana	96 hours
	Acute EC50 32.4 ng/L Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 0.048 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
3-Cyclohexyl-6-dimethylamino-1-methyl-1,2,3,4-tetrahydro-1,3,5-triazine-2,4-dione	Acute LC50 0.4 µg/l Marine water	Fish - Menidia peninsulae	96 hours
	Chronic NOEC 400 µg/l Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	96 hours
	Chronic NOEC 0.01 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.21 ppb Fresh water	Fish - Clarias batrachus	30 days
3-Cyclohexyl-6-dimethylamino-1-methyl-1,2,3,4-tetrahydro-1,3,5-triazine-2,4-dione	Acute EC50 0.00028 ppm Marine water	Crustaceans - Penaeus duorarum	48 hours
	Acute EC50 79.5 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 0.62 µg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 0.55 µg/l Fresh water	Fish - Oncorhynchus mykiss - Oocyte, ova	90 days
3-Cyclohexyl-6-dimethylamino-1-methyl-1,2,3,4-tetrahydro-1,3,5-triazine-2,4-dione	Acute EC50 28 µg/l Marine water	Crustaceans - Penaeus aztecus - Adult	48 hours
	Chronic NOEC 0.1 µg/l Fresh water	Fish - Gobiocypris rarus - Sexually mature	28 days
	Acute EC50 56 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	3 days
	Acute EC50 24.5 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
3-Cyclohexyl-6-dimethylamino-1-methyl-1,2,3,4-tetrahydro-1,3,5-triazine-2,4-dione	Acute EC50 0.073 mg/l Fresh water	Aquatic plants - Lemna sp.	96 hours

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	Acute EC50 85 ppm Fresh water Acute IC50 4.4 µg/l Marine water Acute LC50 71.6 mg/l Fresh water	Daphnia - Daphnia magna Aquatic plants - Zostera muelleri Crustaceans - Pacifastacus leniusculus - Juvenile (Fledgling, Hatchling, Weanling)	48 hours 72 hours 48 hours
	Acute LC50 146.7 ppm Fresh water Chronic NOEC 0.37 µg/l Marine water	Fish - Oncorhynchus mykiss Aquatic plants - Halodule uninervis	96 hours 72 hours
	Chronic NOEC 0.1 mg/l Fresh water Chronic NOEC 20 ppm Fresh water Chronic NOEC 85.5 µg/l Fresh water	Crustaceans - Copepoda Daphnia - Daphnia magna Fish - Salmo salar - Yolk-sac larvae	21 days 21 days 396 days
Leptophos (ISO)	Acute LC50 4.06 µg/l Marine water	Fish - Leiostomus xanthurus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
Coumaphos (ISO)	Acute EC50 0.192 ppb Fresh water	Daphnia - Daphnia magna - Adult	48 hours
	Acute LC50 0.14 µg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
Deltamethrin (ISO)	Acute LC50 150 µg/l Fresh water Chronic NOEC 0.034 ppb Fresh water Chronic NOEC 11.7 ppb	Fish - Lepomis macrochirus Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	96 hours 21 days 62 days
	Acute EC50 2.56 mg/l Fresh water	Algae - Scenedesmus subspicatus	72 hours
	Acute IC50 0.016 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 4 ng/L Fresh water	Crustaceans - Gammarus fossarum - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
3-Phenoxybenzyl-2-(4-ethoxyphenyl)-2-methylpropyl ether	Acute LC50 0.102 µg/l Fresh water	Fish - Cyprinus carpio ssp. communis - Fry	96 hours
	Chronic NOEC 0.0041 ppb Fresh water Chronic NOEC 0.0039 µg/l Fresh water	Daphnia - Daphnia magna Fish - Tinca tinca - Adult	21 days 60 days
	Acute EC50 0.57 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 2.36 ppb Fresh water Chronic NOEC 0.103 ppb Chronic NOEC 0.67 ppb	Fish - Lepomis macrochirus Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	96 hours 21 days 90 days

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Acetone	OECD 301B Ready Biodegradability - CO2 Evolution Test	95 % - Readily - 28 days	-	-
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
Acetone	-	-	Readily	

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Acetone	-0.24	-	low
Dichlorvos (ISO)	1.47	-	low
Atrazine (ISO)	2.34	-	low
Chlorpyrifos-methyl	4.31	-	high
Heptachlor (ISO)	5.27 to 5.44	-	high
Malathion (ISO)	2.89	-	low
Dieldrin (ISO)	6.2	-	high
Chlorpyrifos (ISO)	4.7 to 5.27	-	high
Leptophos (ISO)	6.31	-	high
Coumaphos (ISO)	4.13	-	high
Deltamethrin (ISO)	5.43	-	high

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.

Packaging

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

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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

Additional information

Remarks: De minimis quantities

14.6 Special precautions for user : **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.

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SECTION 14: Transport information

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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c
E1

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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.

Inventory list

Australia : Not determined.

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SECTION 15: Regulatory information

Canada	: Not determined.
China	: <input checked="" type="checkbox"/> Not determined.
Europe	: At least one component is not listed in EINECS but all such components are listed in ELINCS. Please contact your supplier for information on the inventory status of this material.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

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. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

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

Classification	Justification
Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	On basis of test data Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

<input checked="" type="checkbox"/> 225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.

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SECTION 16: Other information

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.

Full text of classifications [CLP/GHS]

<p>Acute Tox. 1, H310 Acute Tox. 2, H300 Acute Tox. 2, H330 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Acute Tox. 4, H302 Acute Tox. 4, H312 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Carc. 2, H351 EUH066 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Lact., H362 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 1, H372</p> <p>STOT RE 2, H373</p> <p>STOT SE 1, H370</p> <p>STOT SE 3, H336</p>	<p>ACUTE TOXICITY (dermal) - Category 1 ACUTE TOXICITY (oral) - Category 2 ACUTE TOXICITY (inhalation) - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 CARCINOGENICITY - Category 2 Repeated exposure may cause skin dryness or cracking. SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 REPRODUCTIVE TOXICITY - Effects on or via lactation SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3</p>
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