SAFETY DATA SHEET

Agilent Technologies

Pesticide Analyzer Checkout Solution

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

1.1 Product identifier

Product name : Pesticide Analyzer Checkout Solution

Part no. : 5190-0468

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

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

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH
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®: +353 1 901 4670

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

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

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

SECTION 2: Hazards identification

Prevention : P280 - 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 : P391 - Collect spillage.

Storage : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

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

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	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	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.05 mg/l M [Acute] = 1000	[1] [2]
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 Aquatic Chronic 1, H410	ATE [Oral] = 5 mg/kg ATE [Dermal] = 4.2 mg/kg M [Acute] = 10000 M [Chronic] = 10000	[1] [2]
ethalfluralin	EC: 259-564-3	≤0.1	Acute Tox. 4, H332	ATE [Inhalation	[1]

SECTION 3: Composition/information on ingredients

	CAS: 55283-68-6		Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	(dusts and mists)] = 4.98 mg/l M [Acute] = 100 M [Chronic] = 100	
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 Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 100	[1] [2]
chlorpyrifos-methyl	EC: 227-011-5 CAS: 5598-13-0	≤0.1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 10000 M [Chronic] = 10000	[1]
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 Aquatic Chronic 1, H410	ATE [Oral] = 100 mg/kg ATE [Dermal] = 500 mg/kg M [Acute] = 1000 M [Chronic] = 1000	[1] [2]
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 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg M [Acute] = 1000 M [Chronic] = 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 Aquatic Chronic 1, H410	ATE [Oral] = 82 mg/kg M [Acute] = 10000 M [Chronic] = 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 Aquatic Chronic 1, H410	ATE [Oral] = 100 mg/kg ATE [Dermal] = 5 mg/kg M [Acute] = 1000 M [Chronic] = 1000	[1] [2]
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 Aquatic Chronic 1, H410	ATE [Oral] = 880 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 3 mg/l M [Acute] = 10 M [Chronic] = 1000	[1]
hexazinone (ISO)	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 Aquatic Chronic 1, H410	ATE [Oral] = 1690 mg/kg M [Acute] = 100 M [Chronic] = 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	ATE [Oral] = 100 mg/kg ATE [Dermal] = 1100 mg/kg	[1]

SECTION 3: Composition/information on ingredients

			Aquatic Chronic 1, H410	M [Acute] = 100 M [Chronic] = 100	
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 Aquatic Chronic 1, H410	ATE [Oral] = 13 mg/kg ATE [Dermal] = 1100 mg/kg M [Acute] = 1000 M [Chronic] = 1000	[1] [2]
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 Aquatic Chronic 1, H410	ATE [Oral] = 100 mg/kg ATE [Inhalation (dusts and mists)] = 0.5 mg/l M [Acute] = 1000000 M [Chronic] = 1000000	[1]
etofenprox (ISO)	EC: 407-980-2 CAS: 80844-07-1 Index: 604-091-00-3	≤0.1	Lact., H362 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 **See Section 16 for the full text of the H statements declared above.**	M [Acute] = 100 M [Chronic] = 1000	[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.

Type

[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. 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. 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.

SECTION 4: First aid measures

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

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

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, CO_2, 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.

SECTION 5: Firefighting measures

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

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). Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Avoid release to the environment. Avoid contact with eyes, skin and clothing. Do not ingest. Empty containers retain product residue and can be hazardous. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

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

SECTION 7: Handling and storage

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 oxidising 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

Danger criteria

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

7.3 Specific end use(s)

Recommendations : Industrial applications, Professional applications.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
acetone	**NAOSH (Ireland, 4/2024)** Notes: EU derived Occupational Exposure Limit Values OELV 8 hours: 500 ppm. OELV 8 hours: 1210 mg/m³. **EU OEL (Europe, 1/2022)** TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m³.
dichlorvos (ISO)	**NAOSH (Ireland, 4/2024)** Absorbed through skin , Sensitiser. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.1 ppm. OELV 8 hours: 1 mg/m³. OELV 15 minutes: 0.3 ppm. OELV 15 minutes: 3 mg/m³.
mevinphos (ISO)	**NAOSH (Ireland, 4/2024)** Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.01 ppm. OELV 8 hours: 0.1 mg/m³.
atrazine (ISO)	**NAOSH (Ireland, 4/2024)** Sensitiser. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 2 mg/m³.
heptachlor (ISO)	**NAOSH (Ireland, 4/2024)** Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.05 mg/m³.
malathion (ISO)	**NAOSH (Ireland, 4/2024)** Absorbed through skin , Sensitiser. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 1 mg/m³. Form: The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases..
chlorpyrifos (ISO)	**NAOSH (Ireland, 4/2024)** Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.1 mg/m³. Form: The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour

SECTION 8: Exposure controls/personal protection

	pressure such that it may be present in both particle and vapour phases..
dieldrin (ISO)	**NAOSH (Ireland, 4/2024)** Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.1 mg/m³.
coumaphos (ISO)	**NAOSH (Ireland, 4/2024)** Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.05 mg/m³. Form: The Inhalable Fraction and Vapour note is used when a material exerts sufficient vapour pressure such that it may be present in both particle and vapour phases..

Biological exposure indices

Product/ingredient name	Exposure indices
acetone	**NAOSH BGVs (Ireland, 1/2011)** BMGV: 50 mg/l, acetone [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.
coumaphos (ISO)	**NAOSH BGVs (Ireland, 1/2011) [Acetylcholinesterase inhibiting pesticides]** BMGV: 70 % of individual's baseline, cholinesterase activity [in red blood cells]. Sampling time: discretionary - at any time.

Recommended monitoring procedures : 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	Result	
acetone	DNEL - General population - Long term - Oral	62 mg/kg bw/day
	DNEL - General population - Long term - Dermal	62 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	186 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	200 mg/m³
	DNEL - Workers - Long term - Inhalation	1210 mg/m³
	DNEL - Workers - Short term - Inhalation	2420 mg/m³
chlorpyrifos (ISO)	DNEL - Workers - Short term - Inhalation	0.6 mg/m³
	DNEL - Workers - Long term - Inhalation	0.0966 mg/m³
	DNEL - Workers - Long term - Dermal	0.36 mg/kg bw/day

PNECs

Not 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.

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: chemical splash goggles.

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.

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

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.

Colour : Colourless.

Odour : Minty.

Odour threshold : Not available.

Melting point/freezing point : -94.9°C

Boiling point or initial boiling point and boiling range : 56.5°C

Flammability : Not applicable.

Lower and upper explosion limit/ flammability limit : Lower: 2.6%
Upper: 12.8%

Flash point : Closed cup: -17.8°C

Auto-ignition temperature : 465°C

Decomposition temperature : Not available.

pH : Not available.

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): Not available.

SECTION 9: Physical and chemical properties

Solubility :

Media	Result
water	Soluble

Partition coefficient: n-octanol/water : -0.24

Vapour pressure : 53.3 kPa (400 mm Hg) (@ 39.5°C [103.1 °F])

Relative density : 0.791

Density : 0.791 g/cm³

Relative vapour density : 2 [Air = 1]

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties : Not available.

Oxidising properties : Not available.

9.2.2 Other safety characteristics

Miscible with water : Yes.

Evaporation rate : 6.06 (butyl acetate = 1)

Physical/chemical properties comments : Not available.

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:
oxidising 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	
acetone	Rat - Oral - LD50	5800 mg/kg
mevinphos (ISO)	Rat - Oral - LD50	3 mg/kg
	Rat - Dermal - LD50	4200 µg/kg
	Rabbit - Dermal - LD50	4700 µg/kg
	Rat - Inhalation - LC50 Vapour	14 ppm [1 hours]
ethalfluralin	Rat - Oral - LD50	>10000 mg/kg
	Rat - Inhalation - LC50 Dusts and mists	4980 mg/m³ [4 hours]
atrazine (ISO)	Rabbit - Dermal - LD50	7500 mg/kg
	Rat - Oral - LD50	672 mg/kg
	Rat - Dermal - LD50	3 g/kg
	Rat - Inhalation - LC50 Dusts and mists	5200 mg/m³ [4 hours]
heptachlor (ISO)	Rabbit - Dermal - LD50	500 mg/kg
malathion (ISO)	Rabbit - Dermal - LD50	4100 mg/kg
	Rat - Oral - LD50	290 mg/kg
	Rat - Inhalation - LC50 Dusts and mists	43790 µg/m³ [4 hours]
chlorpyrifos (ISO)	Rat - Oral - LD50	82 mg/kg
	Rat - Dermal - LD50	202 mg/kg
	Rabbit - Dermal - LD50	2000 mg/kg
dieldrin (ISO)	Rat - Oral - LD50	38300 µg/kg
2,2-bis(p-chlorophenyl) -1,1-dichloroethylene	Rat - Oral - LD50	880 mg/kg
hexazinone (ISO)	Rat - Oral - LD50	1690 mg/kg
	Rat - Dermal - LD50	5278 mg/kg
	Rabbit - Dermal - LD50	>5278 mg/kg
leptophos (ISO)	Rat - Oral - LD50	19 mg/kg
	Rabbit - Dermal - LD50	800 mg/kg
coumaphos (ISO)	Rat - Oral - LD50	13 mg/kg
	Rat - Dermal - LD50	860 mg/kg
	Rabbit - Dermal - LD50	500 mg/kg
deltamethrin (ISO)	Rat - Oral - LD50	5.1 mg/kg
etofenprox (ISO)	Rat - Oral - LD50	>42800 mg/kg

Conclusion/Summary [Product] : Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
acetone	5800	20000	N/A	76	N/A
dichlorvos (ISO)	100	300	N/A	N/A	0.05
mevinphos (ISO)	5	4.2	N/A	N/A	N/A
ethalfluralin	N/A	N/A	N/A	N/A	4.98
atrazine (ISO)	N/A	3000	N/A	N/A	5.2
heptachlor (ISO)	100	500	N/A	N/A	N/A
malathion (ISO)	500	4100	N/A	N/A	N/A
chlorpyrifos (ISO)	82	N/A	N/A	N/A	N/A
dieldrin (ISO)	100	5	N/A	N/A	N/A
2,2-bis(p-chlorophenyl)-1,1-dichloroethylene	880	300	N/A	3	N/A
hexazinone (ISO)	1690	5278	N/A	N/A	N/A
leptophos (ISO)	100	1100	N/A	N/A	N/A
coumaphos (ISO)	13	1100	N/A	N/A	N/A
deltamethrin (ISO)	100	N/A	N/A	N/A	0.5

Skin corrosion/irritation

Product/ingredient name	Result

SECTION 11: Toxicological information

acetone	Rabbit - Skin - Mild irritant	Duration of treatment/ exposure: 24 hours Amount/concentration applied: 500 mg
	Rabbit - Skin - Mild irritant	Amount/concentration applied: 395 mg
atrazine (ISO)	Rabbit - Skin - Mild irritant	Amount/concentration applied: 38 mg

Conclusion/Summary [Product] : Repeated exposure may cause skin dryness or cracking. Causes mild skin irritation.

Ingredient name	Conclusion/Summary
acetone	Repeated exposure may cause skin dryness or cracking. Causes mild skin irritation.

Serious eye damage/eye irritation

Product/ingredient name	Result	
acetone	Rabbit - Eyes - Mild irritant	Amount/concentration applied: 10 uL
	Rabbit - Eyes - Moderate irritant	Duration of treatment/ exposure: 24 hours Amount/concentration applied: 20 mg
atrazine (ISO)	Rabbit - Eyes - Severe irritant	Amount/concentration applied: 6320 ug
hexazinone (ISO)	Rabbit - Eyes - Moderate irritant	Amount/concentration applied: 48 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Conclusion/Summary [Product] : Not available.

Reproductive toxicity

Conclusion/Summary [Product] : Not available.

Ingredient name	Conclusion/Summary

SECTION 11: Toxicological information

dieldrin (ISO)	Repeated or prolonged exposure to the substance can produce reproductive system damage.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
acetone	STOT SE 3, H336 (Narcotic effects)
leptophos (ISO)	STOT SE 1, H370

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
atrazine (ISO)	STOT RE 2, H373
heptachlor (ISO)	STOT RE 2, H373
dieldrin (ISO)	STOT RE 1, H372

Aspiration hazard

Not available.

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

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.

Symptoms related to the physical, chemical and toxicological characteristics

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.

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

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information

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.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

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

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	
acetone	Acute - EC50 - Fresh water	7200 mg/l [96 hours]
	Chronic - NOEC - Marine water	4.95 mg/l [96 hours]
	Chronic - NOEC - Fresh water	0.016 ml/l [21 days]
	Acute - LC50 - Marine water	4.42589 ml/l [48 hours]
	Acute - LC50 - Fresh water	5600 ppm [96 hours]
dichlorvos (ISO)	Acute - LC50 - Fresh water	2.5 µg/l [96 hours]
	Acute - LC50 - Fresh water	0.13 µg/l [48 hours]
	Chronic - NOEC	5.2 ppb [61 days]
	Chronic - NOEC - Marine water	6.66 µg/l [21 days]
	Acute - IC50 - Fresh water	110 mg/l [96 hours]
	Chronic - NOEC - Fresh water	239 mg/l [96 hours]
mevinphos (ISO)	Acute - EC50 - Fresh water	0.16 µg/l [48 hours]
	Acute - LC50 - Fresh water	41.77 ppb [96 hours]
ethalfluralin	Chronic - NOEC - Fresh water	23.7 ppb [21 days]
	Acute - EC50 - Fresh water	60 ppb [48 hours]
	Acute - LC50 - Fresh water	32 ppb [96 hours]
	Chronic - NOEC	0.4 ppb [50 days]
atrazine (ISO)	Acute - EC50 - Fresh water	240 µg/l [48 hours]
	Chronic - NOEC - Fresh water	0.26 ppb [16 weeks]
	Acute - LC50 - Fresh water	1.25 ppm [96 hours]
	Chronic - NOEC - Fresh water	25 µg/l [21 days]
	Acute - EC50 - Fresh water	0.004 mg/l [96 hours]
	Chronic - NOEC - Fresh water	0.0005 mg/l [96 hours]
chlorpyrifos-methyl	Acute - LC50 - Fresh water	12.6 ppb [96 hours]
	Acute - EC50 - Marine water	0.000028 ppm [48 hours]
	Acute - EC50	390 µg/l [96 hours]
heptachlor (ISO)	Acute - LC50 - Marine water	0.8 µg/l [96 hours]
	Acute - EC50 - Fresh water	26.7 µg/l [96 hours]
	Acute - EC50 - Marine water	0.00015 ppm [48 hours]
malathion (ISO)	Acute - EC50 - Fresh water	0.5 µg/l [48 hours]
	Acute - LC50 - Fresh water	11.676 ng/l [96 hours]
	Chronic - NOEC	21 ppb [97 days]
	Chronic - NOEC - Fresh water	0.06 ppb [21 days]
	Chronic - NOEC - Fresh water	34 mg/l [72 hours]
chlorpyrifos (ISO)	Acute - LC50 - Marine water	0.4 µg/l [96 hours]
	Acute - EC50 - Marine water	138 µg/l [96 hours]
	Chronic - NOEC - Fresh water	0.21 ppb [30 days]
	Chronic - NOEC - Fresh water	0.01 µg/l [21 days]
	Acute - EC50 - Fresh water	32.4 ng/l [48 hours]
	Chronic - EC10 - Marine water	132 µg/l [72 hours]
dieldrin (ISO)	Acute - LC50 - Fresh water	0.62 µg/l [96 hours]
	Chronic - NOEC - Fresh water	0.032 mg/l [21 days]
	Chronic - NOEC - Marine water	0.0001 mg/l [8 weeks]
	Acute - EC50 - Marine water	0.00028 ppm [48 hours]

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2,2-bis(p-chlorophenyl) -1,1-dichloroethylene	Acute - EC50 - Marine water	28 µg/l [48 hours]
	Chronic - NOEC - Fresh water	0.1 µg/l [28 days]
hexazinone (ISO)	Chronic - NOEC - Fresh water	85.5 µg/l [396 days]
	Chronic - NOEC - Fresh water	0.1 mg/l [21 days]
	Acute - LC50 - Fresh water	146.7 ppm [96 hours]
	Acute - LC50 - Fresh water	71.6 mg/l [48 hours]
	Acute - IC50 - Marine water	4.4 µg/l [72 hours]
	Chronic - NOEC - Marine water	0.37 µg/l [72 hours]
leptophos (ISO)	Acute - LC50 - Marine water	4.06 µg/l [96 hours]
coumaphos (ISO)	Acute - LC50 - Fresh water	150 µg/l [96 hours]
	Acute - LC50 - Fresh water	0.14 µg/l [48 hours]
	Chronic - NOEC	11.7 ppb [62 days]
	Chronic - NOEC - Fresh water	0.034 ppb [21 days]
deltamethrin (ISO)	Acute - LC50 - Fresh water	0.102 µg/l [96 hours]
	Acute - EC50 - Fresh water	2.56 mg/l [72 hours]
	Acute - LC50 - Fresh water	4 ng/l [48 hours]
	Chronic - NOEC - Fresh water	0.0039 µg/l [60 days]
	Chronic - NOEC - Fresh water	0.0041 ppb [21 days]
etofenprox (ISO)	Chronic - NOEC	0.103 ppb [21 days]
	Acute - LC50 - Fresh water	2.36 ppb [96 hours]
	Acute - EC50 - Fresh water	0.57 ppb [48 hours]
	Chronic - NOEC	0.67 ppb [90 days]

Conclusion/Summary [Product] : Not available.

12.2 Persistence and degradability

Product/ingredient name	Result		
atrazine (ISO)	-	9.86% [28 days] - Not readily	-

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone	-	-	Readily
atrazine (ISO)	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
acetone	-0.24	-	Low
dichlorvos (ISO)	1.47	-	Low
atrazine (ISO)	2.34	-	Low
chlorpyrifos-methyl (ISO)	4.31	-	High
heptachlor (ISO)	5.27 to 5.44	-	High
malathion (ISO) [containing ≤ 0,03 % isomalathion]	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

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Product/ingredient name	logKoc	Koc
acetone	0.56	3.6548
dichlorvos (ISO)	1.7	46.6523
mevinphos (ISO)	0.91	8.05956
ethalfluralin	3.6	3992.48
atrazine (ISO)	2.2	173.852
chlorpyrifos-methyl	3.5	3311.53
heptachlor (ISO)	4.4	23997.2
malathion (ISO)	2.4	229.268
chlorpyrifos (ISO)	3.7	5000.97
dieldrin (ISO)	4.1	12041.2
2,2-bis(p-chlorophenyl) -1,1-dichloroethylene	4.8	65976.5
hexazinone (ISO)	1.7	53.7751
leptophos (ISO)	4.5	31502.4
coumaphos (ISO)	3.1	1132
deltamethrin (ISO)	4.8	62323.3
etofenprox (ISO)	4.5	31989.4

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
acetone	No	No	Yes	No	No	No	Yes
dichlorvos (ISO)	N/A	N/A	Yes	Yes	N/A	N/A	Yes
mevinphos (ISO)	No	N/A	Yes	No	N/A	N/A	Yes
ethalfluralin	No	N/A	No	Yes	No	N/A	No
atrazine (ISO)	No	No	No	No	No	No	No
chlorpyrifos-methyl	No	N/A	No	No	No	N/A	No
heptachlor (ISO)	No	N/A	No	Yes	No	N/A	No
malathion (ISO)	No	No	No	No	No	No	No
chlorpyrifos (ISO)	No	No	No	No	No	No	No
dieldrin (ISO)	No	N/A	No	Yes	No	N/A	No
2,2-bis(p-chlorophenyl) -1,1-dichloroethylene	No	N/A	No	Yes	No	N/A	No
hexazinone (ISO)	No	No	No	No	No	No	No
leptophos (ISO)	No	No	No	No	No	No	No
coumaphos (ISO)	No	No	No	No	No	No	No
deltamethrin (ISO)	No	N/A	No	Yes	No	N/A	No
etofenprox (ISO)	No	No	No	No	No	No	No

Mobility : Not available.

Conclusion/Summary : The product does not meet the criteria to be considered as a PMT or vPvM.

12.5 Results of PBT and vPvB assessment

Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
acetone	No	No	No	No	No	No	No
dichlorvos (ISO)	No	N/A	No	Yes	No	N/A	No
mevinphos (ISO)	No	N/A	N/A	No	N/A	N/A	N/A
ethalfluralin	N/A	N/A	N/A	Yes	N/A	N/A	N/A
atrazine (ISO)	No	N/A	No	Yes	No	N/A	No
chlorpyrifos-methyl	No	N/A	N/A	No	N/A	N/A	N/A
heptachlor (ISO)	N/A	N/A	Yes	Yes	N/A	N/A	Yes
malathion (ISO)	No	N/A	No	Yes	No	N/A	No
chlorpyrifos (ISO)	No	N/A	No	Yes	No	N/A	No
dieldrin (ISO)	N/A	N/A	Yes	Yes	N/A	N/A	Yes
2,2-bis(p-chlorophenyl) -1,1-dichloroethylene	N/A	N/A	Yes	Yes	N/A	N/A	Yes
hexazinone (ISO)	N/A	N/A	N/A	Yes	N/A	N/A	N/A
leptophos (ISO)	No	N/A	Yes	No	N/A	N/A	Yes
coumaphos (ISO)	N/A	N/A	N/A	Yes	N/A	N/A	N/A
deltamethrin (ISO)	No	N/A	No	Yes	No	N/A	No

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etofenprox (ISO)	N/A	N/A	Yes	Yes	No	N/A	No

Regulation (EC) No. 1272/2008 [CLP]

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
acetone	No	No	No	No	No	No	No
dichlorvos (ISO)	No	N/A	No	Yes	No	N/A	No
mevinphos (ISO)	No	N/A	N/A	No	N/A	N/A	N/A
ethalfluralin	N/A	N/A	N/A	Yes	N/A	N/A	N/A
atrazine (ISO)	No	No	No	No	No	No	No
chlorpyrifos-methyl	No	N/A	N/A	No	N/A	N/A	N/A
heptachlor (ISO)	N/A	N/A	Yes	Yes	N/A	N/A	Yes
malathion (ISO)	No	No	No	No	No	No	No
chlorpyrifos (ISO)	No	No	No	No	No	No	No
dieldrin (ISO)	N/A	N/A	Yes	Yes	N/A	N/A	Yes
2,2-bis(p-chlorophenyl) -1,1-dichloroethylene	N/A	N/A	Yes	Yes	N/A	N/A	Yes
hexazinone (ISO)	No	No	No	No	No	No	No
leptophos (ISO)	No	No	No	No	No	No	No
coumaphos (ISO)	No	No	No	No	No	No	No
deltamethrin (ISO)	No	N/A	No	Yes	No	N/A	No
etofenprox (ISO)	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : 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. The generation of waste should be avoided or minimised wherever possible. 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
14.1 UN number or ID number	UN1090	UN1090	UN1090
14.2 UN proper shipping name	ACETONE solution	ACETONE solution	Acetone solution
14.3 Transport hazard class(es)	3 	3 	3 
14.4 Packing group	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

Remarks: De minimis quantities

ADR/RID : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Hazard identification number 33
Limited quantity 1 L
Tunnel code (D/E)

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Emergency schedules F-E, S-D

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.
Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341.

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.

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

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

None of the components are listed / The components are not impacted by a restriction

Labelling : Not applicable.

Other EU regulations

SECTION 15: Regulatory information

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

Ozone depleting substances (EU 2024/590)

Not listed.

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

Not listed.

Persistent Organic Pollutants

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

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.

Canada : Not determined.

China : Not determined.

Eurasian Economic Union : **Russian Federation inventory**: All components are listed or exempted.

Japan : **Japan inventory (CSCL)**: Not determined.
Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : All components are listed or exempted.

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

Full text of abbreviated H statements

H225	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.
H332	Harmful 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.
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.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]

Acute Tox. 1	ACUTE TOXICITY - Category 1
Acute Tox. 2	ACUTE TOXICITY - Category 2
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Lact.	REPRODUCTIVE TOXICITY - Effects on or via lactation
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

SECTION 16: Other information

	Category 3

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