

SAFETY DATA SHEET

GC - MS Semi-Volatiles Analyzer Checkout Mix

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

1.1 Product identifier

Product name : GC - MS Semi-Volatiles Analyzer Checkout Mix
Part no. : 5190-0473

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

Identified uses : Reagents and Standards for Analytical Chemistry Laboratory Use
 3 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]

H315	SKIN CORROSION/IRRITATION	Category 2
H319	SERIOUS EYE DAMAGE/EYE IRRITATION	Category 2
H350	CARCINOGENICITY	Category 1B
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
H420	HAZARDOUS TO THE OZONE LAYER	Category 1

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

Ingredients of unknown toxicity : Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: > 60%

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

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SECTION 2: Hazards identification

Hazard statements : H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H336 - May cause drowsiness or dizziness.
 H350 - May cause cancer.
 H410 - Very toxic to aquatic life with long lasting effects.
 H420 - Harms public health and the environment by destroying ozone in the upper atmosphere.

Precautionary statements

Prevention : P201 - Obtain special instructions before use.
 P280 - Wear protective gloves, protective clothing and eye or face protection.
 P273 - Avoid release to the environment.
Response : P391 - Collect spillage.
Storage : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal : P502 - Refer to manufacturer or supplier for information on recovery or recycling.

Hazardous ingredients : dichloromethane and dimethylnitrosoamine

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Restricted to professional users.

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
dichloromethane	EC: 200-838-9 CAS: 75-09-2 Index: 602-004-00-3	≥90	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 Ozone 1, H420	-	[1] [2]
terbufos (ISO)	EC: 235-963-8 CAS: 13071-79-9 Index: 015-139-00-2	<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] = 1 mg/kg M [Acute] = 1000 M [Chronic] = 1000	[1] [2]
DDT (ISO)	EC: 200-024-3 CAS: 50-29-3	<0.1	Acute Tox. 3, H301 Carc. 2, H351	ATE [Oral] = 87 mg/kg	[1] [2]

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SECTION 3: Composition/information on ingredients

atrazine (ISO)	Index: 602-045-00-7 EC: 217-617-8 CAS: 1912-24-9 Index: 613-068-00-7	≤0.1	STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1000 M [Chronic] = 1000 M [Acute] = 100 M [Chronic] = 100	[1] [2]
endrin (ISO)	EC: 200-775-7 CAS: 72-20-8 Index: 602-051-00-X	<0.1	Acute Tox. 2, H300 Acute Tox. 3, H311 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 5 mg/kg ATE [Dermal] = 300 mg/kg M [Acute] = 100000000 M [Chronic] = 100000000	[1] [2]
aldrin (ISO)	EC: 206-215-8 CAS: 309-00-2 Index: 602-048-00-3	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg M [Acute] = 1000 M [Chronic] = 1000	[1] [2]
simazine (ISO)	EC: 204-535-2 CAS: 122-34-9 Index: 612-088-00-3	<0.01	Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 10 M [Chronic] = 1000	[1] [2]
hexachlorocyclopentadiene	EC: 201-029-3 CAS: 77-47-4 Index: 602-078-00-7	<0.1	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg ATE [Dermal] = 430 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l M [Acute] = 100 M [Chronic] = 100	[1] [2]
dimethylnitrosoamine	EC: 200-549-8 CAS: 62-75-9 Index: 612-077-00-3	<0.1	Acute Tox. 3, H301 Acute Tox. 2, H330 Carc. 1B, H350 STOT RE 1, H372 Aquatic Chronic 2, H411	ATE [Oral] = 100 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l Carc. 1B, H350: C ≥ 0.001%	[1]
pentachlorophenol	EC: 201-778-6 CAS: 87-86-5 Index: 604-002-00-8	<0.01	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (dusts and mists)] = 0.05 mg/l M [Acute] = 100 M [Chronic] = 10	[1] [2]
1,4-dichlorobenzene	CAS: 3855-82-1 Index: 602-035-00-2	<0.1	Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400	M [Acute] = 100 M [Chronic] = 1	[1] [2]

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SECTION 3: Composition/information on ingredients

mevinphos (ISO)	EC: 232-095-1 CAS: 7786-34-7 Index: 015-020-00-5	<0.1	Aquatic Chronic 1, H410 Acute Tox. 2, H300 Acute Tox. 1, H310 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 5 mg/kg ATE [Dermal] = 4.2 mg/kg M [Acute] = 10000 M [Chronic] = 10000	[1] [2]
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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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. 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.
- 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.

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SECTION 4: First aid measures

- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin 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
redness
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
carbonyl halides

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.
- 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.
- Additional information** : When heated, flammable vapours will be evolved.

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. 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. 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 get in eyes or on skin or clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Refer to special instructions/safety data sheet.
- 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 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. 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

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SECTION 7: Handling and storage

Category	Notification and MAPP threshold	Safety report threshold
1	100 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
dichloromethane	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV 15 minutes: 706 mg/m ³ . OELV 15 minutes: 200 ppm. OELV 8 hours: 353 mg/m ³ . OELV 8 hours: 100 ppm. EU OEL (Europe, 1/2022) Absorbed through skin. STEL 15 minutes: 200 ppm. STEL 15 minutes: 706 mg/m ³ . TWA 8 hours: 100 ppm. TWA 8 hours: 353 mg/m ³ .
terbufos (ISO)	NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.01 mg/m ³ . 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..
DDT (ISO)	NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 1 mg/m ³ .
atrazine (ISO)	NAOSH (Ireland, 4/2024) Sensitiser. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 2 mg/m ³ .
endrin (ISO)	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.1 mg/m ³ .
aldrin (ISO)	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.05 mg/m ³ . 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..
simazine (ISO)	NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.5 mg/m ³ .
hexachlorocyclopentadiene	NAOSH (Ireland, 4/2024) Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.01 ppm. OELV 8 hours: 0.1 mg/m ³ .
pentachlorophenol	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 0.5 mg/m ³ .
1,4-dichlorobenzene	NAOSH (Ireland, 4/2024) Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values

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SECTION 8: Exposure controls/personal protection

mevinphos (ISO)	<p>OELV 15 minutes: 60 mg/m³. OELV 15 minutes: 10 ppm. OELV 8 hours: 12 mg/m³. OELV 8 hours: 2 ppm. EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 2 ppm. TWA 8 hours: 12 mg/m³. STEL 15 minutes: 10 ppm. STEL 15 minutes: 60 mg/m³. 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.</p>
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Biological exposure indices

Product/ingredient name	Exposure indices
dichloromethane	<p>NAOSH (Ireland, 1/2011) BMGV: 1 mg/l, methylene chloride [in blood]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 4 %, COHb [in blood]. Sampling time: end of shift - As soon as possible after exposure ceases. BMGV: 0.3 mg/l, methylene chloride [in urine]. Sampling time: end of shift - As soon as possible after exposure ceases.</p>
pentachlorophenol	<p>NAOSH (Ireland, 1/2011) BMGV: 5 mg/l, free PCP [in plasma]. Sampling time: prior to last shift of workweek. BMGV: 2 mg/g creatinine, total PCP [in urine]. Sampling time: prior to last shift of workweek.</p>

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
dichloromethane	DNEL - General population - Long term - Oral 0.06 mg/kg bw/day
	DMEL - General population - Short term - Inhalation 5 mg/m ³
	DNEL - General population - Long term - Dermal 5.82 mg/kg bw/day
	DNEL - Workers - Long term - Dermal 12 mg/kg bw/day
	DNEL - General population - Long term - Inhalation 44 mg/m ³
	DMEL - Workers - Short term - Inhalation 132.14 mg/m ³
hexachlorocyclopentadiene	DNEL - Workers - Long term - Inhalation 176 mg/m ³
	DNEL - General population - Long term - Inhalation 0.0084 mg/m ³
	DNEL - General population - Long term - Dermal 0.0139 mg/kg bw/day
	DNEL - Workers - Long term - Dermal 0.0278 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation 0.0336 mg/m ³
	DNEL - General population - Long term - Oral 0.05 mg/kg bw/day
	DNEL - General population - Short term - Oral 0.1 mg/kg bw/day
	DNEL - Workers - Short term - Dermal 0.167 mg/kg bw/day
	DNEL - General population - Short term - Inhalation 0.72 mg/m ³
	DNEL - General population - Short term - Dermal 0.83 mg/kg bw/day
1,4-dichlorobenzene	DNEL - Workers - Short term - Inhalation 1.44 mg/m ³
	DNEL - General population - Long term - Oral 0.7 mg/kg bw/day
	DNEL - General population - Long term - Dermal 0.7 mg/kg bw/day
	DNEL - Workers - Long term - Dermal 1.4 mg/kg bw/day

SECTION 8: Exposure controls/personal protection

DNEL - General population - Short term - Oral	3.5 mg/kg bw/day
DNEL - General population - Short term - Dermal	3.5 mg/kg bw/day
DNEL - Workers - Short term - Dermal	7 mg/kg bw/day
DNEL - General population - Long term - Inhalation	8.2 mg/m ³
DNEL - Workers - Long term - Inhalation	46.1 mg/m ³
DNEL - General population - Short term - Inhalation	300 mg/m ³
DNEL - Workers - Short term - Inhalation	300 mg/m ³

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.

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

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.

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. [Clear.]

Colour : Colourless.

Odour : Chloroform.

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SECTION 9: Physical and chemical properties

- Odour threshold** : Not available.
- Melting point/freezing point** : -97°C
- Boiling point or initial boiling point and boiling range** : 40°C
- Flammability** : Not applicable.
- Lower and upper explosion limit/flammability limit** : Not available.
- Flash point** : Not available.
- Auto-ignition temperature** : 556.1°C
- Decomposition temperature** : Not available.
- pH** : Not available.
- Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C): Not available.

Solubility	Media	Result
	water	Insoluble

- Partition coefficient: n-octanol/water** : Not applicable.
- Vapour pressure** : 47.1 kPa (353.1 mm Hg)
- Relative density** : Not available.
- Density** : 1.32 g/cm³
- Relative vapour density** : 2.93 [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** : No.
- Evaporation rate** : 27.5 (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** : No specific data.

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SECTION 10: Stability and reactivity

10.5 Incompatible materials : May react or be incompatible with oxidising materials.

Reactive or incompatible with the following materials: metals and alkalis. aluminium , Magnesium.

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

dichloromethane terbufos (ISO)	Rat - Inhalation - LC50 Vapour Rat - Oral - LD50 Rat - Dermal - LD50 Rabbit - Dermal - LD50	76000 mg/m ³ [4 hours] 1.6 mg/kg 7.4 mg/kg 1 mg/kg
DDT (ISO)	Rat - Oral - LD50 Rabbit - Dermal - LD50	87 mg/kg 300 mg/kg
atrazine (ISO)	Rat - Dermal - LD50 Rabbit - Dermal - LD50 Rat - Oral - LD50 Rat - Dermal - LD50	250 mg/kg 7500 mg/kg 672 mg/kg 3 g/kg
aldrin (ISO)	Rat - Inhalation - LC50 Dusts and mists Rat - Dermal - LD50 Rabbit - Dermal - LD50 Rat - Oral - LD50	5200 mg/m ³ [4 hours] 98 mg/kg 15 mg/kg 38 mg/kg
simazine (ISO)	Rat - Oral - LD50 Rat - Dermal - LD50 Rabbit - Dermal - LD50 Rat - Inhalation - LC50 Dusts and mists	971 mg/kg >5 g/kg >10200 mg/kg 9800 mg/m ³ [4 hours]
hexachlorocyclopentadiene	Rat - Oral - LD50 Rabbit - Dermal - LD50 Rat - Inhalation - LC50 Vapour	200 mg/kg 430 mg/kg 1600 ppb [4 hours]
dimethylnitrosoamine	Rat - Oral - LD50 Rat - Inhalation - LC50 Vapour	26 mg/kg 78 ppm [4 hours]
pentachlorophenol	Rat - Oral - LD50 Rat - Dermal - LD50	27 mg/kg 26 mg/kg
1,4-dichlorobenzene	Rat - Oral - LD50 Rat - Dermal - LD50 Rat - Inhalation - LC50 Dusts and mists	500 mg/kg 2000 mg/kg 5000 mg/m ³ [4 hours]
mevinphos (ISO)	Rat - Oral - LD50 Rat - Dermal - LD50 Rabbit - Dermal - LD50 Rat - Inhalation - LC50 Vapour	3 mg/kg 4200 µg/kg 4700 µg/kg 14 ppm [1 hours]

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)
dichloromethane	N/A	N/A	N/A	76	N/A
terbufos (ISO)	5	1	N/A	N/A	N/A
DDT (ISO)	87	N/A	N/A	N/A	N/A
atrazine (ISO)	N/A	3000	N/A	N/A	5.2
endrin (ISO)	5	300	N/A	N/A	N/A
aldrin (ISO)	100	300	N/A	N/A	N/A
simazine (ISO)	N/A	N/A	N/A	N/A	9.8

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SECTION 11: Toxicological information

hexachlorocyclopentadiene	500	430	N/A	0.5	N/A
dimethylnitrosoamine	100	N/A	N/A	0.5	N/A
pentachlorophenol	100	300	N/A	N/A	0.05
mevinphos (ISO)	5	4.2	N/A	N/A	N/A

Skin corrosion/irritation

Product/ingredient name

Result

chloromethane	Rabbit - Skin - Moderate irritant	Duration of treatment/ exposure: 24 hours
atrazine (ISO)	Rabbit - Skin - Mild irritant	-
simazine (ISO)	Rabbit - Skin - Mild irritant	-
hexachlorocyclopentadiene	Rabbit - Skin - Severe irritant	Duration of treatment/ exposure: 24 hours
	Rabbit - Skin - Severe irritant	Duration of treatment/ exposure: 4 hours
pentachlorophenol	Rabbit - Skin - Mild irritant	Duration of treatment/ exposure: 24 hours

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

Serious eye damage/eye irritation

Product/ingredient name

Result

chloromethane	Rabbit - Eyes - Moderate irritant	-
atrazine (ISO)	Rabbit - Eyes - Severe irritant	-
simazine (ISO)	Rabbit - Eyes - Moderate irritant	-
hexachlorocyclopentadiene	Rabbit - Eyes - Severe irritant	Duration of treatment/ exposure: 5 minutes
pentachlorophenol	Rabbit - Eyes - Mild irritant	Duration of treatment/ exposure: 24 hours

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Skin

Conclusion/Summary [Product] : May cause skin sensitisation.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Conclusion/Summary [Product] : Not available.

SECTION 11: Toxicological information

Reproductive toxicity

Conclusion/Summary : Not available.

[Product]

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
chloromethane	STOT SE 3, H336 (Narcotic effects)
pentachlorophenol	STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
DT (ISO)	STOT RE 1, H372
atrazine (ISO)	STOT RE 2, H373
aldrin (ISO)	STOT RE 1, H372
dimethylnitrosoamine	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	: Causes skin 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 redness
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

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SECTION 11: Toxicological information

- Conclusion/Summary** : Not available.
- [Product]**
- General** : No known significant effects or critical hazards.
- Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.
- 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** : 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.
- [Product]**
- Other information** : Adverse symptoms may include the following: central nervous system depression, headache, nausea or vomiting, dizziness/vertigo, drowsiness/fatigue, carboxyhaemoglobinaemia

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	
chloromethane	Acute - LC50 - Marine water	108.5 mg/l [48 hours]
	Acute - EC50	242 mg/l [72 hours]
	Acute - EC50 - Fresh water	99 mg/l [96 hours]
	Chronic - NOEC - Fresh water	56 mg/l [96 hours]
terbufos (ISO)	Acute - EC50 - Fresh water	0.121 µg/l [48 hours]
	Acute - EC50 - Fresh water	0.59 mg/l [96 hours]
	Chronic - NOEC - Fresh water	0.03 ppb [21 days]
	Acute - LC50 - Fresh water	0.77 ppb [96 hours]
DDT (ISO)	Chronic - NOEC	0.64 ppb [95 days]
	Chronic - NOEC - Fresh water	10 µg/l [4 days]
	Acute - LC50 - Marine water	0.26 µg/l [96 hours]
	Acute - EC50 - Fresh water	0.4 µg/l [48 hours]
atrazine (ISO)	Chronic - NOEC - Marine water	100 ppb [4 days]
	Chronic - NOEC - Fresh water	1 µg/l [21 days]
	Acute - EC50 - Fresh water	240 µg/l [48 hours]
	Chronic - NOEC - Fresh water	0.26 ppb [16 weeks]
endrin (ISO)	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]
aldrin (ISO)	Acute - LC50 - Fresh water	0.0011 ng/l [48 hours]
	Acute - LC50 - Fresh water	0.048 µg/l [96 hours]
	Chronic - NOEC - Marine water	0.12 µg/l [4 weeks]
	Acute - LC50 - Fresh water	1.2 µg/l [96 hours]
simazine (ISO)	Acute - LC50 - Fresh water	0.21 µg/l [48 hours]
	Acute - EC50 - Fresh water	1000 µg/l [48 hours]
	Acute - LC50 - Fresh water	250 µg/l [96 hours]
	Acute - IC50 - Fresh water	48.6 µg/l [72 hours]
hexachlorocyclopentadiene	Chronic - NOEC - Fresh water	0.06 µg/l [90 days]
	Chronic - NOEC - Fresh water	0.01 mg/l [3 days]
	Chronic - NOEC - Fresh water	2.5 ppm [21 days]
	Acute - LC50 - Fresh water	0.039 mg/l [48 hours]
dimethylnitrosoamine	Acute - LC50 - Fresh water	7 µg/l [96 hours]
	Chronic - NOEC - Fresh water	0.009 mg/l [21 days]
	Acute - LC50 - Fresh water	940 mg/l [96 hours]
	Acute - EC50 - Fresh water	4000 µg/l [96 hours]
pentachlorophenol	Chronic - NOEC - Fresh water	10 µg/l [28 days]
	Acute - LC50 - Fresh water	5.6 µg/l [48 hours]
	Acute - EC50 - Marine water	20.3 ppb [4 days]
	Acute - LC50 - Fresh water	11 µg/l [96 hours]
	Chronic - NOEC - Fresh water	1.8 µg/l [21 days]
	Chronic - NOEC - Fresh water	5 µg/l [96 hours]

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1,4-dichlorobenzene	Acute - EC50 - Fresh water	0.7 mg/l [48 hours]
	Acute - EC50 - Fresh water	1.1 µg/l [96 hours]
	Chronic - NOEC - Fresh water	5 mg/l [3 days]
	Acute - EC50 - Fresh water	1.6 mg/l [96 hours]
	Chronic - NOEC - Fresh water	0.3 mg/l [21 days]
	Chronic - NOEC - Fresh water	349 µg/l [28 days]
	mevinphos (ISO)	Acute - EC50 - Fresh water
	Acute - LC50 - Fresh water	41.77 ppb [96 hours]

Conclusion/Summary : Not available.

[Product]

Ingredient name

dichloromethane

Conclusion/Summary

Harmful to aquatic organisms.

12.2 Persistence and degradability

Product/ingredient name

dichloromethane
atrazine (ISO)

Result

Aerobic >70% [28 days] - Readily Aerobic
- 9.86% [28 days] - Not -
readily

Conclusion/Summary : Not available.

[Product]

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

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
dichloromethane	1.25	22.91	Low
terbufos (ISO)	4.48	-	High
DDT (ISO)	6.91	19498.45	High
atrazine (ISO)	2.59	7.94	Low
endrin (ISO)	5.2	7413.1	High
aldrin (ISO)	6.5	5495.41	High
simazine (ISO)	2.18	3.63	Low
hexachlorocyclopentadiene	5.04	-	High
dimethylnitrosoamine	-0.57	-	Low
pentachlorophenol	5.12	457.09	Low
1,4-dichlorobenzene	3.44	296	Low
mevinphos (ISO)	0.13	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
dichloromethane	1.44	27.5998
terbufos (ISO)	2.82	660.363
DDT (ISO)	5.31	203163
atrazine (ISO)	2.24	173.852
endrin (ISO)	4.08	12041.2
aldrin (ISO)	4.69	48966
simazine (ISO)	2.1	126.139
hexachlorocyclopentadiene	3.9	7890.3
dimethylnitrosoamine	0.81	6.44258
pentachlorophenol	4.3	19871.5
1,4-dichlorobenzene	2.65	447.497
mevinphos (ISO)	0.91	8.05956

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SECTION 12: Ecological information

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
1,1-dichloromethane	No	No	Yes	No	No	No	Yes
terbufos (ISO)	No	No	No	No	No	No	No
DDT (ISO)	No	No	No	No	No	No	No
atrazine (ISO)	No	No	No	No	No	No	No
endrin (ISO)	No	No	No	Yes	No	No	No
aldrin (ISO)	No	No	No	No	No	No	No
simazine (ISO)	No	No	No	No	No	No	No
hexachlorocyclopentadiene	No	No	No	No	No	No	No
dimethylnitrosoamine	No	No	No	No	No	No	No
pentachlorophenol	No	No	No	No	No	No	No
1,4-dichlorobenzene	No	No	No	No	No	No	No
mevinphos (ISO)	No	No	Yes	No	No	No	Yes

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
1,1-dichloromethane	No	No	No	No	No	No	No
terbufos (ISO)	No	No	No	No	No	No	No
DDT (ISO)	No	No	No	No	No	No	No
atrazine (ISO)	No	No	No	No	No	No	No
endrin (ISO)	No	No	Yes	Yes	No	No	Yes
aldrin (ISO)	No	No	No	No	No	No	No
simazine (ISO)	No	No	No	No	No	No	No
hexachlorocyclopentadiene	No	No	No	No	No	No	No
dimethylnitrosoamine	No	No	No	No	No	No	No
pentachlorophenol	No	No	No	No	No	No	No
1,4-dichlorobenzene	No	No	No	No	No	No	No
mevinphos (ISO)	No	No	No	No	No	No	No

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

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
1,1-dichloromethane	No	No	No	No	No	No	No
terbufos (ISO)	No	No	No	No	No	No	No
DDT (ISO)	No	No	No	No	No	No	No
atrazine (ISO)	No	No	No	No	No	No	No
endrin (ISO)	No	No	Yes	Yes	No	No	Yes
aldrin (ISO)	No	No	No	No	No	No	No
simazine (ISO)	No	No	No	No	No	No	No
hexachlorocyclopentadiene	No	No	No	No	No	No	No
dimethylnitrosoamine	No	No	No	No	No	No	No
pentachlorophenol	No	No	No	No	No	No	No
1,4-dichlorobenzene	No	No	No	No	No	No	No
mevinphos (ISO)	No	No	No	No	No	No	No

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

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

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

SECTION 12: Ecological information

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.

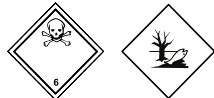
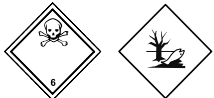

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

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. Avoid dispersal of spilled 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	UN1593	UN1593	UN1593
14.2 UN proper shipping name	DICHLOROMETHANE solution	DICHLOROMETHANE solution	Dichloromethane solution
14.3 Transport hazard class(es)	6.1 	6.1 	6.1 
14.4 Packing group	III	III	III
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 60

Limited quantity 5 L

Special provisions 516

Tunnel code (E)

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

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.

Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 655. Cargo Aircraft Only: 220 L. Packaging instructions: 663. Limited Quantities - Passenger Aircraft: 2 L. Packaging instructions: Y642.

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SECTION 14: Transport information

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 : Restricted to professional users.

Other EU regulations

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

Ozone depleting substances (EU 2024/590)

Ingredient name	Status
Dichloromethane	Annex II

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

Not listed.

Persistent Organic Pollutants

Ingredient name	Annex	Status
pentachlorophenol and its salts and esters	Annex I - Part A	Listed

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category
1

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.

SECTION 15: Regulatory information

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: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: <input checked="" type="checkbox"/> Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: 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 :

- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- B = Bioaccumulative
- BCF = Bioconcentration Factor
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods
- IMO = International Maritime Organization
- M = Mobile
- N/A = Not available
- P = Persistent
- PBT = Persistent, Bioaccumulative and Toxic
- PMT = Persistent, Mobile and Toxic
- PNEC = Predicted No Effect Concentration
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- RRN = REACH Registration Number
- SGG = Segregation Group
- T = Toxic
- vB = Very Bioaccumulative
- vM = Very Mobile
- vP = Very Persistent
- vPvB = Very Persistent and Very Bioaccumulative
- vPvM = Very Persistent and Very Mobile

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

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SECTION 16: Other information

Classification	Justification
Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 1B, H350 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Ozone 1, H420	Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H300 H301 H302 H310 H311 H314 H315 H317 H319 H330 H335 H336 H350 H351 H372 H373 H400 H410 H411 H420	Fatal if swallowed. Toxic if swallowed. Harmful if swallowed. Fatal in contact with skin. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Fatal if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harms public health and the environment by destroying ozone in the upper atmosphere.
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Full text of classifications [CLP/GHS]

Acute Tox. 1 Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Carc. 1B Carc. 2 Eye Irrit. 2 Ozone 1 Skin Corr. 1B Skin Irrit. 2 Skin Sens. 1 STOT RE 1 STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 1 ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 CARCINOGENICITY - Category 1B CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 HAZARDOUS TO THE OZONE LAYER - Category 1 SKIN CORROSION/IRRITATION - Category 1B 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 3
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Date of previous issue : 13/02/2023

Version : 2

[Notice to reader](#)

SECTION 16: Other information

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