

# SAFETY DATA SHEET



191 Thinner

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

### 1.1 Product identifier

**Product name** : 191 Thinner  
**Product description** : Diluent.  
**Product type** : Liquid.  
**UFI** : 41X1-X00H-H009-6WDX  
**Product code** : ROI0017

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

Identified uses	
Industrial Professional	
Uses advised against	Reason
Consumer use	Product is not intended for consumer use.

### 1.3 Details of the supplier of the safety data sheet

RUST-OLEUM EUROPE  
Martin Mathys NV, Kolenbergstraat 23, B-3545 Zelem, Belgium  
Telephone no.: +32 (0) 13 460 200  
Fax no.: +32 (0) 13 460 201

Tor Coatings Limited  
Unit 21, White Rose Way, Follingsby Park, Gateshead, Tyne & Wear, NE10 8YX United Kingdom  
Telephone no.: +44 (0) 191 4106611  
Fax no.: +44 (0) 191 4920125  
enquiries@tor-coatings.com

**e-mail address of person responsible for this SDS** : rpmeurohas@rustoleum.eu

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

#### Supplier

Telephone number United Kingdom: : +44 870 8200418 / +44 2038073798  
Great Britain  
Hours of operation : 24 / 7

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

#### Classification according to UK CLP/GHS

Flam. Liq. 2, H225  
Eye Irrit. 2, H319  
STOT SE 3, H336  
Asp. Tox. 1, H304  
Aquatic Chronic 3, H412

## SECTION 2: Hazards identification

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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.  
 H304 - May be fatal if swallowed and enters airways.  
 H319 - Causes serious eye irritation.  
 H336 - May cause drowsiness or dizziness.  
 H412 - Harmful to aquatic life with long lasting effects.

#### Precautionary statements

##### General

: Not applicable.

##### Prevention

: P280 - Wear eye or face protection.  
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P271 - Use only outdoors or in a well-ventilated area.

##### Response

: P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

##### Storage

: P405 - Store locked up.  
 P403 + P235 - Store in a well-ventilated place. Keep cool.

##### Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Hazardous ingredients

: acetone  
 2-methoxy-1-methylethyl acetate  
 n-butyl acetate  
 hydrocarbons, aromatic, C9  
 reaction mass of ethylbenzene and xylene

#### Supplemental label elements

: EUH066 - Repeated exposure may cause skin dryness or cracking.

#### Supplemental label elements : Detergents - Regulation (EC) No 907/2006

: Not applicable.

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

: Not applicable.

#### Special packaging requirements

##### Containers to be fitted with child-resistant fastenings

: Not applicable.

##### Tactile warning of danger

: Not applicable.

### 2.3 Other hazards

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**SECTION 2: Hazards identification**

**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.

**Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.** : Not applicable

**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	Type
acetone	REACH #: 01-2119471330-49 EC: 200-662-2 CAS: 67-64-1 Index: 606-001-00-8	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
2-methoxy-1-methylethyl acetate	EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1] [2]
hydrocarbons, aromatic, C9	REACH #: 01-2119455851-35 EC: 918-668-5	≤10	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
reaction mass of ethylbenzene and xylene	EC: 905-588-0	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 <b>See Section 16 for the full text of the H statements declared above.</b>	[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** : Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**4.2 Most important symptoms and effects, both acute and delayed****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** : Adverse symptoms may include the following:  
nausea or vomiting

**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<sub>2</sub>, 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 harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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

**Additional information** : Take precautionary measures against static discharges. No unusual hazard if involved in a fire.

## 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.

### 6.3 Methods and material for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## SECTION 6: Accidental release measures

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

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

### 7.1 Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 35°C (95°F). 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	5000 tonnes	50000 tonnes

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**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	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 3620 mg/m <sup>3</sup> . STEL 15 minutes: 1500 ppm. TWA 8 hours: 500 ppm. TWA 8 hours: 1210 mg/m <sup>3</sup> .
2-methoxy-1-methylethyl acetate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> Absorbed through skin. STEL 15 minutes: 548 mg/m <sup>3</sup> . TWA 8 hours: 50 ppm. TWA 8 hours: 274 mg/m <sup>3</sup> . STEL 15 minutes: 100 ppm.
n-butyl acetate	<b>EH40/2005 WELs (United Kingdom (UK), 1/2020)</b> STEL 15 minutes: 966 mg/m <sup>3</sup> . STEL 15 minutes: 200 ppm. TWA 8 hours: 724 mg/m <sup>3</sup> . TWA 8 hours: 150 ppm.

#### Biological exposure indices

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS 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	Value	Effects
acetone	<b>DNEL - General population - Long term - Oral</b>	62 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Dermal</b>	62 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Dermal</b>	186 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Inhalation</b>	200 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Inhalation</b>	1210 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Short term - Inhalation</b>	2420 mg/m <sup>3</sup>	<u>Effects:</u> Local
2-methoxy-1-methylethyl acetate	<b>DNEL - Workers - Long term - Inhalation</b>	275 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Dermal</b>	153,5 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Consumers - Long term - Dermal</b>	54,8 mg/m <sup>3</sup>	<u>Effects:</u> Systemic

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n-butyl acetate	DNEL - General population - Consumers - Long term - Oral	1,67 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - Workers - Long term - Dermal	796 mg/kg	Effects: Systemic
	DNEL - General population - Long term - Dermal	320 mg/kg	Effects: Systemic
	DNEL - General population - Long term - Oral	36 mg/kg	Effects: Systemic
	DNEL - General population - Long term - Inhalation	33 mg/m <sup>3</sup>	Effects: Local
	DNEL - General population - Long term - Inhalation	33 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - Workers - Short term - Inhalation	550 mg/m <sup>3</sup>	Effects: Local
	DNEL - Workers - Long term - Dermal	7 mg/kg bw/day	Effects: Systemic
	DNEL - General population - Consumers - Long term - Oral	3,4 mg/kg bw/day	Effects: Systemic
	DNEL - Workers - Short term - Inhalation	960 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - Workers - Short term - Inhalation	960 mg/m <sup>3</sup>	Effects: Local
	DNEL - Workers - Long term - Inhalation	480 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - Workers - Long term - Inhalation	480 mg/m <sup>3</sup>	Effects: Local
	DNEL - General population - Consumers - Short term - Inhalation	859,7 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - General population - Consumers - Short term - Inhalation	859,7 mg/m <sup>3</sup>	Effects: Local
	DNEL - General population - Consumers - Long term - Inhalation	102,34 mg/m <sup>3</sup>	Effects: Systemic
	DNEL - General population - Consumers - Long term - Inhalation	102,34 mg/m <sup>3</sup>	Effects: Local
	DNEL - General population - Consumers - Long term - Dermal	3,4 mg/kg bw/day	Effects: Systemic
DNEL - General population - Long term - Oral	2 mg/kg bw/day	Effects: Systemic	
DNEL - General population - Short term - Oral	2 mg/kg bw/day	Effects: Systemic	

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hydrocarbons, aromatic, C9	<b>DNEL - General population - Long term - Dermal</b>	3,4 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Short term - Dermal</b>	6 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Dermal</b>	7 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Short term - Dermal</b>	11 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Inhalation</b>	12 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Inhalation</b>	35,7 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - Workers - Long term - Inhalation</b>	48 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Short term - Inhalation</b>	300 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - General population - Short term - Inhalation</b>	300 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Inhalation</b>	300 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - Workers - Short term - Inhalation</b>	600 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - Workers - Short term - Inhalation</b>	600 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Inhalation</b>	150 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - Workers - Long term - Dermal</b>	25 mg/kg	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Dermal</b>	11 mg/kg	<u>Effects:</u> Systemic
	reaction mass of ethylbenzene and xylene	<b>DNEL - General population - Long term - Inhalation</b>	32 mg/m <sup>3</sup>
<b>DNEL - General population - Long term - Oral</b>		11 mg/kg	<u>Effects:</u> Systemic
<b>DNEL - Workers - Short term - Inhalation</b>		442 mg/m <sup>3</sup>	<u>Effects:</u> Local
<b>DNEL - Workers - Short term - Inhalation</b>		442 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
<b>DNEL - Workers - Long term - Inhalation</b>		221 mg/m <sup>3</sup>	<u>Effects:</u> Local
<b>DNEL - Workers - Long term - Inhalation</b>	221 mg/m <sup>3</sup>	<u>Effects:</u> Systemic	
<b>DNEL - Workers - Long term - Dermal</b>	212 mg/kg bw/day	<u>Effects:</u> Systemic	

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	<b>DNEL - General population - Short term - Inhalation</b>	260 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - General population - Short term - Inhalation</b>	260 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Inhalation</b>	65,3 mg/m <sup>3</sup>	<u>Effects:</u> Local
	<b>DNEL - General population - Long term - Inhalation</b>	65,3 mg/m <sup>3</sup>	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Dermal</b>	125 mg/kg bw/day	<u>Effects:</u> Systemic
	<b>DNEL - General population - Long term - Oral</b>	12,5 mg/kg bw/day	<u>Effects:</u> Systemic

### PNECs

<b>Product/ingredient name</b>	<b>Result</b>	<b>Value</b>	<b>Remarks</b>
acetone	<b>Fresh water</b>	10,6 mg/l	-
	<b>Marine water</b>	1,06 mg/l	-
	<b>Sewage Treatment Plant</b>	100 mg/l	-
	<b>Fresh water sediment</b>	30,4 mg/kg	-
	<b>Marine water sediment</b>	3,04 mg/kg	-
	<b>Soil</b>	29,5 mg/kg	-
2-methoxy-1-methylethyl acetate	<b>Fresh water</b>	0,635 mg/l	-
	<b>Fresh water sediment</b>	3,29 mg/kg	-
	<b>Marine water sediment</b>	0,329 mg/kg	-
	<b>Soil</b>	0,29 mg/kg	-
	<b>Sewage Treatment Plant</b>	100 mg/l	-
	<b>Marine water</b>	0,0635 mg/l	-
n-butyl acetate	<b>Fresh water</b>	0,18 mg/l	-
	<b>Marine</b>	0,018 mg/l	-
	<b>Fresh water sediment</b>	0,981 mg/kg	-
	<b>Marine water sediment</b>	0,0981 mg/kg	-
	<b>Soil</b>	0,0903 mg/kg	-
	<b>Sewage Treatment Plant</b>	35,6 mg/l	-
reaction mass of ethylbenzene and xylene	<b>Fresh water</b>	0,327 mg/l	-
	<b>Marine water</b>	0,327 mg/l	-
	<b>Fresh water sediment</b>	12,46 mg/kg	-
	<b>Marine water sediment</b>	12,46 mg/kg	-

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	<b>Soil</b>	2,31 mg/kg	-
	<b>Sewage Treatment Plant</b>	6,58 mg/l	-

**8.2 Exposure controls**

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

**Individual protection measures**

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

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Skin protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

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

Always ensure that gloves are free from defects and that they are stored and used correctly.

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

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

**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. > 8 hours (breakthrough time): polyethylene (PE)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. 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 British Standard BS EN 1149 for further information on material and design requirements and test methods. Recommended: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

**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.

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- 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. Recommended: organic vapour filter (Type AX) (EN 140) .
- 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**

- Physical state** : Liquid. [Clear sparkling liquid.]
- Colour** : Colourless.
- Odour** : Solvent-like
- Odour threshold** : Not available.
- Melting point/freezing point** : Not applicable.
- Initial boiling point and boiling range** : 56,05°C (132,9°F) [Literature acetone]
- Flammability (solid, gas)** : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.  
Flammable in the presence of the following materials or conditions: oxidising materials.  
Slightly flammable in the presence of the following materials or conditions: combustible materials and organic materials.  
Non-flammable in the presence of the following materials or conditions: shocks and mechanical impacts, metals, acids, alkalis and moisture.  
Vapour may travel a considerable distance to source of ignition and flash back.
- Lower and upper explosion limit** : Lower: 1,58% [Calculated (Le Chatelier mixture rule)]  
Upper: 8,95% [Calculated (Le Chatelier mixture rule)]
- Flash point** : Closed cup: -20°C (-4°F) [Literature acetone]
- Auto-ignition temperature** : 333°C (631,4°F) [Literature 2-methoxy-1-methylethyl acetate]
- Decomposition temperature** : Not applicable.
- pH** : Not applicable.
- pH : Justification** : Product is non-soluble (in water).
- Viscosity** : Dynamic (room temperature): <6 mPa·s [ISO 2431]  
Kinematic (room temperature): <6 mm<sup>2</sup>/s [calculated.]  
Kinematic (40°C): <6 mm<sup>2</sup>/s

**Solubility(ies)** :

Media	Result
hot water	Soluble
methanol	Soluble
diethyl ether	Soluble
n-octanol	Partially soluble
acetone	Soluble

- Solubility in water** : Not available.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Vapour pressure** : 3,2 kPa (24 mm Hg) [Literature acetone]
- Evaporation rate** : 5,7 (Butyl acetate. = 1)
- Relative density** : Not available.
- Density** : 0,847 to 0,877 g/cm<sup>3</sup> [20°C (68°F)] [DIN 53217]
- Vapour density** : >1 [Air = 1]

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## SECTION 9: Physical and chemical properties

- Explosive properties** : Explosive in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.  
Slightly explosive in the presence of the following materials or conditions: oxidising materials.  
Non-explosive in the presence of the following materials or conditions: shocks and mechanical impacts.  
Take precautionary measures against static discharges. No unusual hazard if involved in a fire.
- Oxidising properties** : Not available.
- Particle characteristics**
- Median particle size** : Not applicable.

## 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	Value
acetone	Rat - Oral - LD50	5800 mg/kg
	Rabbit - Dermal - LD50	>7400 mg/kg
	Guinea pig - Dermal - LD50	>7400 mg/kg
2-methoxy-1-methylethyl acetate	Rabbit - Dermal - LD50	>5 g/kg
	Rat - Inhalation - NOEL Dusts and mists	8100 mg/m <sup>3</sup> [4 hours]
n-butyl acetate	Rat - Oral - LD50	14000 mg/kg
	Rat - Inhalation - LC50 Vapour	>21 mg/l [4 hours]
	Rat - Inhalation - LC50 Vapour	9700 mg/m <sup>3</sup> [4 hours]
hydrocarbons, aromatic, C9	Rat - Oral - LD50	8400 mg/kg
reaction mass of ethylbenzene and xylene	Rabbit - Dermal - LD50	12126 mg/kg

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

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**SECTION 11: Toxicological information****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)
191 Thinner hydrocarbons, aromatic, C9 reaction mass of ethylbenzene and xylene	N/A 8400 N/A	22207,9 N/A 1100	N/A N/A N/A	N/A N/A N/A	30,3 N/A 1,5

**Skin corrosion/irritation**

Not available.

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.**Ingredient name**

2-methoxy-1-methylethyl acetate  
n-butyl acetate  
hydrocarbons, aromatic, C9  
reaction mass of ethylbenzene and xylene

**Conclusion/Summary**

Non-irritating to the skin.  
Non-irritating to the skin.  
Non-irritating to the skin.  
Harmful in contact with skin

**Serious eye damage/eye irritation**

Product/ingredient name	Result	Exposure	Observation
acetone	<b>Rabbit - Eyes - Severe irritant</b>	<u>Amount/concentration applied:</u> 20 mg	-
hydrocarbons, aromatic, C9	<b>Rabbit - Eyes - Mild irritant</b>	<u>Amount/concentration applied:</u> 100 UI	-

**Conclusion/Summary [Product]** : Causes serious eye irritation.**Ingredient name**

2-methoxy-1-methylethyl acetate  
n-butyl acetate  
hydrocarbons, aromatic, C9

**Conclusion/Summary**

Non-irritating to the eyes.  
Non-irritating to the eyes.  
Non-irritating to the eyes.

**Respiratory corrosion/irritation**

Not available.

**Conclusion/Summary [Product]** : May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.**Ingredient name**

hydrocarbons, aromatic, C9  
reaction mass of ethylbenzene and xylene

**Conclusion/Summary**

May cause respiratory irritation.  
Harmful by inhalation.

**Respiratory or skin sensitization**

Not available.

**Skin****Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.**Ingredient name**

2-methoxy-1-methylethyl acetate  
n-butyl acetate  
hydrocarbons, aromatic, C9

**Conclusion/Summary**

Non-sensitiser to skin.  
Non-sensitiser to skin.  
Non-sensitiser to skin.

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## SECTION 11: Toxicological information

### Respiratory

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

### Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

### Reproductive toxicity

Product/ingredient name	Species - Route of exposure	Dose - Exposure	Effects
hydrocarbons, aromatic, C9	Mammal - species unspecified - Unreported	-	-

**Conclusion/Summary [Product]** : Based on available data, the classification criteria are not met.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Result
acetone	STOT SE 3, H336 (Narcotic effects)
2-methoxy-1-methylethyl acetate	STOT SE 3, H336 (Narcotic effects)
n-butyl acetate	STOT SE 3, H336 (Narcotic effects)
hydrocarbons, aromatic, C9	STOT SE 3, H335 (Respiratory tract irritation)
	STOT SE 3, H336 (Narcotic effects)
reaction mass of ethylbenzene and xylene	STOT SE 3, H335 (Respiratory tract irritation)

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
reaction mass of ethylbenzene and xylene	STOT RE 2, H373

### Aspiration hazard

Product/ingredient name	Result
hydrocarbons, aromatic, C9	ASPIRATION HAZARD - Category 1
reaction mass of ethylbenzene and xylene	ASPIRATION HAZARD - Category 1

### 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. May be fatal if swallowed and enters airways.

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## SECTION 11: Toxicological information

### 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** : Adverse symptoms may include the following:  
 nausea or vomiting

### 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

Not available.

**Conclusion/Summary [Product]** : Not available.

- 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.

### Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species
acetone	<b>Acute - LC50 - Fresh water</b> 7280 mg/l [96 hours]	Fish - Fathead minnow
	<b>Acute - LC50 - Fresh water</b> 8098 mg/l [48 hours]	Crustaceans - Water flea - Neonate
	<b>Chronic - NOEC - Fresh water</b> 0,016 ml/l [21 days]	Crustaceans - Daphnia spec.
	<b>Chronic - NOEC - Marine water</b> 5 µg/l [42 days]	Fish - Threespine stickleback - Larvae
	<b>Chronic - NOEC - Marine water</b> 0,5 ml/l [96 hours]	Algae - Dinoflagellate

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**SECTION 12: Ecological information**

2-methoxy-1-methylethyl acetate	<b>Acute - LC50 - Marine water</b> 4,42589 ml/l [48 hours]	Crustaceans - Calanoid copepod - Copepodid
	<b>Acute - LC50 - Fresh water</b> 5600 ppm [96 hours]	Fish - Guppy
	<b>Acute - NOEC</b> >1000 mg/l [96 hours]	Algae - Algae
	<b>Acute - LC50 - Fresh water</b> 130 mg/l [96 hours]	Fish - Rainbow trout (oncorhynchus mykiss)
	<b>Chronic - LC10</b> 100 mg/l [21 days]	Daphnia spec. - Daphnia spec.
	<b>Chronic - NOEC - Fresh water</b> 47,5 mg/l [14 days]	Fish
n-butyl acetate	<b>Acute - EC50 - Fresh water</b> 44 mg/l [48 hours]	Daphnia spec. - Daphnia spec.
	<b>Acute - EC50 - Fresh water</b> 397 mg/l [72 hours]	Algae
	<b>Acute - LC50 - Fresh water</b> 18 mg/l [96 hours]	Fish - Fathead minnow
	<b>Chronic - NOEC - Fresh water</b> 23 mg/l [21 days]	Daphnia spec. - Daphnia spec.
reaction mass of ethylbenzene and xylene	<b>Acute - LC50 - Marine water</b> 32 mg/l [48 hours]	Crustaceans - Brine shrimp
	<b>NOEC</b> 0,44 mg/l [72 hours]	Algae
	<b>Chronic - NOEC</b> 0,96 mg/l [7 days]	Daphnia spec.
	<b>Chronic - NOEC</b> 1,3 mg/l [56 days]	Fish - Rainbow trout (oncorhynchus mykiss)
	<b>Chronic - NOEC</b> 1,17 mg/l [7 days]	Daphnia spec. - Zebra barbel

**Conclusion/Summary [Product]** : Harmful to aquatic life with long lasting effects.

**Ingredient name**  
hydrocarbons, aromatic, C9

**Conclusion/Summary**  
Toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

Product/ingredient name	Test	Result
2-methoxy-1-methylethyl acetate	-	100% [8 days] - Inherent
n-butyl acetate	-	90% [28 days] - Readily
	-	83% [28 days] - Readily
	-	80% [5 days]

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**SECTION 12: Ecological information****Conclusion/Summary [Product]** : Rapidly lost by degradation and volatilization.**Ingredient name**acetone  
n-butyl acetate  
hydrocarbons, aromatic, C9**Conclusion/Summary**Exposure to sunlight accelerates decomposition.  
This product is readily biodegradable.  
Biodegradable according to OECD.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
acetone	-	-	Readily
2-methoxy-1-methylethyl acetate	-	-	Readily
n-butyl acetate	-	-	Readily
hydrocarbons, aromatic, C9	-	-	Readily

**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
acetone	-0,23	-	Low
2-methoxy-1-methylethyl acetate	1,2	-	Low
n-butyl acetate	2,3	10	Low
hydrocarbons, aromatic, C9	3.7 to 4.5	10 to 2500	High
reaction mass of ethylbenzene and xylene	3,6	-	Low

**12.4 Mobility in soil****Soil/water partition coefficient** : Not available.**Mobility** : Rapidly lost by degradation and volatilisation.**12.5 Results of PBT and vPvB assessment**

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
acetone	N/A	N/A	N/A	Yes	N/A	N/A	N/A
2-methoxy-1-methylethyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
n-butyl acetate	No	N/A	No	No	No	N/A	No
hydrocarbons, aromatic, C9	No	N/A	No	No	No	N/A	No
reaction mass of ethylbenzene and xylene	N/A	N/A	N/A	Yes	N/A	N/A	N/A

**12.6 Other adverse effects** : No known significant effects or critical hazards.**SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

**13.1 Waste treatment methods****Product**

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## SECTION 13: Disposal considerations

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

### Waste catalogue

Waste code	Waste designation
14 06 03*	other solvents and solvent mixtures

**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	ADN	IMDG	IATA
<b>14.1 UN number or ID number</b>	UN1263	UN1263	UN1263	UN1263
<b>14.2 UN proper shipping name</b>	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
<b>14.3 Transport hazard class(es)</b>	3 	3 	3 	3 
<b>14.4 Packing group</b>	II	II	II	II
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.

### Additional information ADR

**Limited quantity** : 5L  
**Transport Category** : 2  
**Hazard identification number** : 33  
**Classification code** : F1  
**ADR Label Model Number** : 3  
**Excepted Quantity** : E2  
**Tunnel code** : (D/E)  
**Packing instructions** : P001, IBC02, R001  
**Mixed Packing Provisions** : MP19  
**Special Packing Provisions** : PP1  
**Special provisions** : 163, 367, 640D, 650

### Additional information ADN

**Limited quantity** : 5L

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## SECTION 14: Transport information

**Classification code** : F1  
**Special provisions** : 163, 367, 640C, 640D, 650

### Additional information IMDG

**Limited quantity** : 5L  
**Emergency schedules** : F-E, S-E  
**Special provisions** : 163, 367

### Additional information IATA

**Passenger and Cargo Aircraft** : Quantity limitation 5L Packaging instruction 353  
**Cargo aircraft** : Quantity limitation 60L Packaging instruction 364  
**Limited Quantities - Passenger Aircraft** : Quantity limitation 1L Packaging instruction Y341  
**Special provisions** : A3, A72, A192

**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 Maritime transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

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

#### UK (GB)/REACH

##### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed above the relevant limit.

##### Substances of very high concern

None of the components are listed above the relevant limit.

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

Product/ingredient name	%	Designation [Usage]
191 Thinner	≥90	3

**Labelling** : Not applicable.

#### Synthetic polymer microparticles - Designation 78

**Generic identity of polymer(s)** : Not applicable.

**Total percentage of synthetic polymer microparticles** : Not applicable.

#### Other EU regulations

**VOC for Ready-for-Use Mixture** : Exempt

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## SECTION 15: Regulatory information

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

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

### Ozone depleting substances

Not listed.

### Prior Informed Consent (PIC)

Not listed.

### Persistent Organic Pollutants

Not listed.

### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

#### Category

P5c

### EU regulations

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

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

### 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.

**CN code** : 3814 00 90 99

### Inventory list

**Australia** : All components are listed or exempted.

**Canada** : All components are listed or exempted.

**China** : All components are listed or exempted.

**Eurasian Economic Union** : **Russian Federation inventory**: Not determined.

**Japan** : **Japan inventory (CSCL)**: All components are listed or exempted.  
**Japan inventory (ISHL)**: Not determined.

**New Zealand** : All components are listed or exempted.

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**SECTION 15: Regulatory information**

<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: Not determined.
<b>15.2 Chemical safety assessment</b>	: This product contains substances for which Chemical Safety Assessments are still required.

**SECTION 16: Other information**

Indicates information that has changed from previously issued version.

<b>Abbreviations and acronyms</b>	: ATE = Acute Toxicity Estimate GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = GB CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative
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**Procedure used to derive the classification**

Classification	Justification
Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	On basis of test data Calculation method Calculation method Calculation method Calculation method

**Full text of abbreviated H statements**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Full text of classifications**

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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## SECTION 16: Other information

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### Notice to reader

**IMPORTANT NOTE:** The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.