

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 22/12/2020 Revision date: 08/12/2023 Supersedes version of: 17/11/2023 Version: 5.1

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

1.1. Product identifier

Product form : Mixture

Trade name : MOLY-MIST™ Aerosol
UFI : 7VR0-C0TT-C003-2MAN

Vaporizer : Aerosol Product group : Mixtures

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Use of the substance/mixture : Lubricant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Whitmore Manufacturing LLC 930 Whitmore Drive 75087 Rockwall, Texas USA

T 1.972.771.1000

Regulatory@whitmores.com - www.jetlube.com

1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call CHEMTREC 24hr/day 7days/week

Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1.703.527.3887

(collect calls accepted)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Ireland	Chemtrec - Ireland	Dublin	Local (City) +353 1 901 4670	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol, Category 1 H222;H229
Serious eye damage/eye irritation, Category 2 H319
Specific target organ toxicity – Single exposure, Category 3, H336

Narcosis

l, H411

Hazardous to the aquatic environment – Chronic Hazard, Category 2

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)







GHS02 GHS07

GHS09

Signal word (CLP) : Danger

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Precautionary statements (CLP)

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Contains : acetone; Methyl ethyl ketone

Hazard statements (CLP) : H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use. P261 - Avoid breathing mist, spray, vapours.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment. P280 - Wear protective gloves, eye protection.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P312 - Call a POISON CENTER, doctor if you feel unwell.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P391 - Collect spillage.

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

P405 - Store locked up.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 $^{\circ}\text{C},\,122$

°F.

P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component		
Propane (74-98-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
acetone (67-64-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Methyl ethyl ketone (78-93-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
methyl propyl ketone (107-87-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
1,2,4 Trimethylbenzene (95-63-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Methyl isobutyl ketone (108-10-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Cumene (98-82-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Xylene (1330-20-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
2-phenoxyethanol (122-99-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Ethylbenzene (100-41-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
toluene (108-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
cobalt(II) 2-ethylhexanoate (136-52-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
cyclohexane (110-82-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
butyl glycolether (111-76-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
N-methyl-2-pyrrolidone (872-50-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8	32.1282	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Propane	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5	21.472	Flam. Gas 1A, H220 Aerosol 1, H222;H229 Press. Gas Aquatic Chronic 2, H411
Methyl ethyl ketone substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3	19.2972	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Xylene substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9	8.7828 – 8.8998	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Aquatic Chronic 2, H411
methyl propyl ketone substance with national workplace exposure limit(s) (IE)	CAS-No.: 107-87-9 EC-No.: 203-528-1	1.1459916	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
N-methyl-2-pyrrolidone substance listed as REACH Candidate (1-Methyl-2- pyrrolidone (NMP)) substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 872-50-4 EC-No.: 212-828-1 EC Index-No.: 606-021-00-7	0.22464 – 0.22932	Not classified
1,2,4 Trimethylbenzene substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 95-63-6 EC-No.: 202-436-9 EC Index-No.: 601-043-00-3	0.1300416	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
butyl glycolether substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0	0.09126 – 0.1053	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373
cyclohexane substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 110-82-7 EC-No.: 203-806-2 EC Index-No.: 601-017-00-1	0.070122 – 0.092742	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethylbenzene substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4	0.039 - 0.078	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), H332 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Methyl isobutyl ketone substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 108-10-1 EC-No.: 203-550-1 EC Index-No.: 606-004-00-4	0.0568932	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT SE 3, H335
naphtha (petroleum), hydrotreated heavy substance with a Community workplace exposure limit (Note P)	CAS-No.: 64742-48-9 EC-No.: 265-150-3 EC Index-No.: 649-327-00-6	0.0312 - 0.03744	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Cumene substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 98-82-8 EC-No.: 202-704-5 EC Index-No.: 601-024-00-X	0.00039 – 0.0039	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 Aquatic Chronic 2, H411
toluene substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3	0.00039 – 0.0039	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 1, H410

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
N-methyl-2-pyrrolidone	CAS-No.: 872-50-4 EC-No.: 212-828-1 EC Index-No.: 606-021-00-7	(10 ≤ C ≤ 100) STOT SE 3, H335

Note P:

Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.

Explosion hazard : Pressurised container: May burst if heated.

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Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Exercise caution. Spill area may be slippery. No open flames, no sparks, and no smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store

locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Propane (74-98-6)		
Ireland - Occupational Exposure Limits		
Local name	Aliphatic hydrocarbon gases Alkanes (C1-C3): Propane	
Remark	Asphx. (Gaseous chemical substances which may not produce significant physiological effects in the exposed employee, but when present in high concentrations will act as simple asphyxiants)	
Regulatory reference	Chemical Agents Code of Practice 2021	
acetone (67-64-1)		
EU - Indicative Occupational Exposure Limit (IOEI	_)	
Local name	Acetone	
IOEL TWA	1210 mg/m³	
IOEL TWA [ppm]	500 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Ireland - Occupational Exposure Limits		
Local name	Acetone	
OEL TWA [1]	1210 mg/m³	

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acetone (67-64-1)		
OEL TWA [2]	500 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	Acetone	
BMGV	50 mg/l Parameter: acetone - Medium: urine - Sampling time: End of shift - Notations: Ns (Non-specific)	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
Methyl ethyl ketone (78-93-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Butanone	
IOEL TWA	600 mg/m³	
IOEL TWA [ppm]	200 ppm	
IOEL STEL	900 mg/m³	
IOEL STEL [ppm]	300 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Ireland - Occupational Exposure Limits		
Local name	Methyl ethyl ketone (MEK)	
OEL TWA [1]	600 mg/m³	
OEL TWA [2]	200 ppm	
OEL STEL	900 mg/m³	
OEL STEL	300 ppm	
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	Butan-2-one	
BMGV	70 μmol/l Parameter: butan-2- one - Medium: urine - Sampling time: Post shift	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
methyl propyl ketone (107-87-9)		
Ireland - Occupational Exposure Limits		
Local name	Pentan-2-one [Methyl propyl ketone]	
OEL TWA [1]	700 mg/m³	
OEL TWA [2]	200 ppm	
OEL STEL	875 mg/m³	
OEL STEL	250 ppm	
Regulatory reference	Chemical Agents Code of Practice 2021	
1,2,4 Trimethylbenzene (95-63-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	1,2,4-Trimethylbenzene	
IOEL TWA	100 mg/m³	
IOEL TWA [ppm]	20 ppm	
TOLL TWA [ppm]		

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1,2,4 Trimethylbenzene (95-63-6)		
Ireland - Occupational Exposure Limits		
Local name	1,2,4-Trimethylbenzene	
OEL TWA [1]	100 mg/m³	
OEL TWA [2]	20 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
Methyl isobutyl ketone (108-10-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	4-Methylpentan-2-one	
IOEL TWA	83 mg/m³	
IOEL TWA [ppm]	20 ppm	
IOEL STEL	208 mg/m³	
IOEL STEL [ppm]	50 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Ireland - Occupational Exposure Limits		
Local name	Methyl isobutyl ketone (MIBK) [Hexone, Isobutyl methyl keton, 4-Methylpentan-2-one)	
OEL TWA [1]	83 mg/m³	
OEL TWA [2]	20 ppm	
OEL STEL	208 mg/m³	
OEL STEL	50 ppm	
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	Methyl isobutyl ketone (MIBK)/ 4-methylpentan-2-one	
BMGV	1 mg/l Parameter: MIBK - Medium: urine - Sampling time: End of shift	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
Cumene (98-82-8)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	2-Phenylpropane (Cumene)	
IOEL TWA	50 mg/m³	
IOEL TWA [ppm]	10 ppm	
IOEL STEL	050 / 0	
	250 mg/m³	
IOEL STEL [ppm]	50 ppm	
IOEL STEL [ppm] Remark	-	
	50 ppm Skin. During exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure	
Remark	50 ppm Skin. During exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL)	
Remark Regulatory reference	50 ppm Skin. During exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL)	
Remark Regulatory reference Ireland - Occupational Exposure Limits	50 ppm Skin. During exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL) COMMISSION DIRECTIVE (EU) 2019/1831	
Remark Regulatory reference Ireland - Occupational Exposure Limits Local name	50 ppm Skin. During exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL) COMMISSION DIRECTIVE (EU) 2019/1831 Isopropyl benzene (Cumene)	
Remark Regulatory reference Ireland - Occupational Exposure Limits Local name OEL TWA [1]	50 ppm Skin. During exposure monitoring, account should be taken of relevant biological monitoring values as suggested by the Scientific Committee on Occupational Exposure Limits for Chemicals Agents (SCOEL) COMMISSION DIRECTIVE (EU) 2019/1831 Isopropyl benzene (Cumene) 50 mg/m³	

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Cumene (98-82-8)				
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)			
Regulatory reference	Chemical Agents Code of Practice 2021			
Xylene (1330-20-7)	Xylene (1330-20-7)			
EU - Indicative Occupational Exposure Limit (IOEL)				
Local name	Xylene, mixed isomers, pure			
IOEL TWA	221 mg/m³			
IOEL TWA [ppm]	50 ppm			
IOEL STEL	442 mg/m³			
IOEL STEL [ppm]	100 ppm			
Remark	Skin			
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC			
Ireland - Occupational Exposure Limits				
Local name	Xylene, mixed isomers			
OEL TWA [1]	221 mg/m³			
OEL TWA [2]	50 ppm			
OEL STEL	442 mg/m³			
OEL STEL	100 ppm			
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)			
Regulatory reference	Chemical Agents Code of Practice 2021			
Ireland - Biological limit values				
Local name	Xylene			
BMGV	1.5 g/g creatinine Parameter: methylhippuric acids - Medium: urine - Sampling time: End of Shift			
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)			
Ethylbenzene (100-41-4)				
EU - Indicative Occupational Exposure Limit (IOEL)				
Local name	Ethylbenzene			
IOEL TWA	442 mg/m³			
IOEL TWA [ppm]	100 ppm			
IOEL STEL	884 mg/m³			
IOEL STEL [ppm]	200 ppm			
Remark	Skin			
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC			
Ireland - Occupational Exposure Limits	• .			
Local name	Ethylbenzene			
OEL TWA [1]	442 mg/m³			
OEL TWA [2]	100 ppm			
OEL STEL	884 mg/m³			
OEL STEL	200 ppm			
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)			

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Ethylbenzene (100-41-4)		
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	Ethyl benzene	
BMGV	0.7 g/g creatinine Parameter: mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: End of shift at end of workweek - Notations: Ns (Non-specific), Sq (Semi-quantitative) Parameter: ethylbenzene - Medium: end-exhaled air - Sampling time: Not critical - Notations: Sq (Semi-quantitative)	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
toluene (108-88-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Toluene	
IOEL TWA	192 mg/m³	
IOEL TWA [ppm]	50 ppm	
IOEL STEL	384 mg/m³	
IOEL STEL [ppm]	100 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
Ireland - Occupational Exposure Limits		
Local name	Toluene	
OEL TWA [1]	192 mg/m³	
OEL TWA [2]	50 ppm	
OEL STEL	384 mg/m³	
OEL STEL	100 ppm	
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	Toluene	
BMGV	0.02 mg/l Parameter: toluene - Medium: blood - Sampling time: Prior to last shift of workweek 0.03 mg/l Parameter: toluene - Medium: urine - Sampling time: End of shift 0.3 mg/g creatinine Parameter: o-cresol - Medium: urine - Sampling time: End of shift - Notations: B (Background)	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
cyclohexane (110-82-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Cyclohexane	
IOEL TWA	700 mg/m³	
IOEL TWA [ppm]	200 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
Ireland - Occupational Exposure Limits		
Local name	Cyclohexane	
OEL TWA [1]	700 mg/m³	
OEL TWA [2]	200 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	

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cyclohexane (110-82-7)			
Regulatory reference	Chemical Agents Code of Practice 2021		
butyl glycolether (111-76-2)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	2-Butoxyethanol		
IOEL TWA	98 mg/m³		
IOEL TWA [ppm]	20 ppm		
IOEL STEL	246 mg/m³		
IOEL STEL [ppm]	50 ppm		
Remark	Skin		
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC		
Ireland - Occupational Exposure Limits			
Local name	2-Butoxyethanol (EGBE) [Ethylene glycol monobutyl ether]		
OEL TWA [1]	98 mg/m³		
OEL TWA [2]	20 ppm		
OEL STEL	246 mg/m³		
OEL STEL	50 ppm		
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)		
Regulatory reference	Chemical Agents Code of Practice 2021		
Ireland - Biological limit values			
Local name	2-Butoxyethanol		
BMGV	200 mg/g creatinine Parameter: BAA - Medium: urine - Sampling time: End of shift		
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)		
N-methyl-2-pyrrolidone (872-50-4)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	n-Methyl-2-pyrrolidone		
IOEL TWA	40 mg/m³		
IOEL TWA [ppm]	10 ppm		
IOEL STEL	80 mg/m³		
IOEL STEL [ppm]	20 ppm		
Remark	Skin		
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU		
EU - Biological Limit Value (BLV)			
Local name	N-Methyl-2-pyrrolidone		
BLV	20 mg/g creatinine Parameter: 2-hydroxy-N-methylsuccinimide - Medium: urine - Sampling time: morning-after-shift; 18 hours 70 mg/g creatinine Parameter: 5-hydroxy-N-methyl-2-pyrrolidone - Medium: urine - Sampling time: 2-4 hours after the end of exposure/shift		
Regulatory reference	SCOEL List of recommended health-based BLVs and BGVs		
Ireland - Occupational Exposure Limits			
Local name	n-Methyl-2-pyrrolidone		
OEL TWA [1]	40 mg/m³		
OEL TWA [2] 10 ppm			
OEL STEL	80 mg/m³		

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N-methyl-2-pyrrolidone (872-50-4)		
OEL STEL	20 ppm	
Remark	Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2021	
Ireland - Biological limit values		
Local name	N-Methyl-2-Pyrrolidone	
BMGV	20 mg/g creatinine Parameter: 2-HMSI - Medium: urine - Notations: 2-HMSI measured morning after shift (8hrs) 70 mg/g creatinine Parameter: 5-HNMP - Medium: urine - Sampling time: End of shift - Notations: 5-HNMP measured 2-4hrs after the end of the shift	
Regulatory reference	Biological Monitoring Guidelines (HSA, 2011)	
naphtha (petroleum), hydrotreated heavy (64742-48-9)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	White spirit Type 3	
IOEL TWA	116 mg/m³	
IOEL TWA [ppm]	20 ppm	
IOEL STEL	290 mg/m³	
IOEL STEL [ppm]	50 ppm	
Remark	Skin. (Year of adoption 2007)	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Neoprene or nitrile rubber gloves

Type Disposable gloves	Material Nitrile rubber (NBR), Neoprene rubber (HNBR)	Permeation 2 (> 30 minutes)	Thickness (mm) 0.3 mm - 0.6 mm	Penetration	Standard
Hand protection		1			

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Other skin protection

Materials for protective clothing:

Wear protective clothing

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Black.
Appearance : Aerosols.
Odour : Acetone odour.
Odour threshold : Not available
Melting point : Not applicable
Freezing point : Not available

Boiling point : > 36 °C (Based on components)
Flammability : Extremely flammable aerosol.

Explosive properties : Pressurised container: May burst if heated.

Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : < 0 °C (Liquid portion)

Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : Not available Viscosity, kinematic : Not available Solubility : Insoluble in water. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : Not available Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 83.9469892 %

9.2.2. Other safety characteristics

Gas group : Press. Gas (Liq.)

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

, ,	
Propane (74-98-6)	
LC50 Inhalation - Rat [ppm]	> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))
acetone (67-64-1)	
LD50 oral rat	5800 mg/kg bodyweight Animal: rat, Animal sex: female
LD50 dermal rabbit	20000 mg/kg (Equivalent or similar to OECD 402, Rabbit, Male, Experimental value, Dermal)
LC50 Inhalation - Rat	76 mg/l air Animal: rat, Animal sex: female, 95% CL: 65,2 - 88,4
LC50 Inhalation - Rat (Vapours)	76 mg/l Source: ECHA
Methyl ethyl ketone (78-93-3)	
LD50 oral rat	2193 mg/kg bodyweight (Equivalent or similar to OECD 423, Rat, Male / female, Readacross, Oral)
LD50 dermal rabbit	> 10 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal)
LC50 Inhalation - Rat (Vapours)	34.5 mg/l/4h
methyl propyl ketone (107-87-9)	
LD50 oral rat	1600 – 3200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 25.5 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)
1,2,4 Trimethylbenzene (95-63-6)	
LD50 oral rat	6000 mg/kg bodyweight (EU Method B.1 tris: Acute oral toxic – Acute toxic class method, Rat, Male, Experimental value, Oral, 014 day(s))
LD50 oral	5000 mg/kg
LD50 dermal rat	3440 mg/kg (24 h, Rat, Male / female, Read-across, Dermal)
LD50 dermal rabbit	> 3160 mg/kg Source: International Uniform ChemicaL Information Database
LC50 Inhalation - Rat	> 10.2 mg/l/4h (4 h, Rat, Male / female, Read-across, Inhalation (vapours), 14 day(s))
LC50 Inhalation - Rat (Vapours)	18 mg/l Source: Corporate Solution From Thomson Micromedex
Methyl isobutyl ketone (108-10-1)	
LD50 oral rat	2080 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1,91 - 2,27
LD50 dermal rat	≥ 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)
LD50 dermal rabbit	≥ 2000 mg/kg Source: ECHA
LC50 Inhalation - Rat	11.6 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Vapours)	8.2 – 16.4 mg/l Source: NTP TR 538
Cumene (98-82-8)	
LD50 oral rat	2700 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 014 day(s))
LD50 oral	2700 mg/kg

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Cumene (98-82-8)			
LD50 dermal rabbit	> 3160 mg/kg bodyweight Animal: rabbit		
LC50 Inhalation - Rat	39 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours), 14 day(s))		
LC50 Inhalation - Rat (Vapours)	9.83 mg/l/4h		
Xylene (1330-20-7)			
LD50 oral rat	3523 mg/kg bodyweight (Equivalent or similar to EU Method B.1: Acute Toxicity (Oral), Rat, Male, Experimental value, Oral, 14 day(s))		
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male		
LD50 dermal	1700 mg/kg		
LC50 Inhalation - Rat (Vapours)	27.57 mg/l/4h		
Ethylbenzene (100-41-4)			
LD50 oral rat	3500 mg/kg (Rat, Male / female, Experimental value, Oral)		
LD50 dermal rabbit	15432 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal)		
LC50 Inhalation - Rat	17.8 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours))		
toluene (108-88-3)			
LD50 oral rat	5580 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EU Method B.1 (Acute Toxicity (Oral)), 95% CL: 5300 - 5910		
LD50 oral	5000 mg/kg		
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Animal sex: male, 95% CL: 9,63 - 20,77		
LC50 Inhalation - Rat	25.7 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male, Experimental value, Inhalation (vapours))		
LC50 Inhalation - Rat (Vapours)	12.5 mg/l/4h		
cyclohexane (110-82-7)			
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)		
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
LC50 Inhalation - Rat	> 32.88 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)		
butyl glycolether (111-76-2)			
LD50 oral rat	1746 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1322 - 2301		
LD50 oral	470 mg/kg		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
LD50 dermal	220 mg/kg		
LC50 Inhalation - Rat [ppm]	450 ppm (Equivalent or similar to OECD 403, 4 h, Rat, Female, Experimental value, Inhalation (vapours))		
LC50 Inhalation - Rat (Vapours)	2.03 mg/l/4h		
N-methyl-2-pyrrolidone (872-50-4)			
LD50 oral rat	4150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 3100 - 5560		
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
LC50 Inhalation - Rat	> 5.1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)		
LC50 Inhalation - Rat (Dust/Mist)	> 5.1 mg/l Source: ECHA		
naphtha (petroleum), hydrotreated heavy (64	naphtha (petroleum), hydrotreated heavy (64742-48-9)		
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)		

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naphtha (petroleum), hydrotreated heavy (64742-48-9)		
LD50 dermal rabbit	> 3160 mg/kg Source: IUCLID	
	Not classified (Based on available data, the classification criteria are not met)	
Propane (74-98-6)	Not classified (Dased on available data, the classification chieffa are not met)	
pH	Not applicable	
	Тот аррисало	
acetone (67-64-1) pH	7 (10 g/l)	
methyl propyl ketone (107-87-9)	(10 g/l)	
pH	No data available in the literature	
	The data available in the incrature	
Methyl isobutyl ketone (108-10-1) pH	5.4 (14.1 g/l, 20 °C)	
	3.4 (14.1 g/l, 20 °C)	
toluene (108-88-3)	7 Causas abandania	
рН	7 Source: chemicalbook	
cyclohexane (110-82-7)		
pH	7 (52 mg/l, 23.5 °C)	
N-methyl-2-pyrrolidone (872-50-4)		
рН	8 – 10 (10 %)	
<u> </u>	Causes serious eye irritation.	
Propane (74-98-6)		
рН	Not applicable	
acetone (67-64-1)		
рН	7 (10 g/l)	
methyl propyl ketone (107-87-9)		
рН	No data available in the literature	
Methyl isobutyl ketone (108-10-1)		
рН	5.4 (14.1 g/l, 20 °C)	
toluene (108-88-3)		
рН	7 Source: chemicalbook	
cyclohexane (110-82-7)		
рН	7 (52 mg/l, 23.5 °C)	
N-methyl-2-pyrrolidone (872-50-4)		
рН	8 – 10 (10 %)	
Respiratory or skin sensitisation :	Not classified (Based on available data, the classification criteria are not met)	
	Not classified (Based on available data, the classification criteria are not met)	
<u>-</u> .	Not classified (Based on available data, the classification criteria are not met)	
Methyl isobutyl ketone (108-10-1)		
IARC group	2B - Possibly carcinogenic to humans	
Cumene (98-82-8)		
IARC group	2B - Possibly carcinogenic to humans	
Xylene (1330-20-7)		
IARC group	3 - Not classifiable	

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Ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans
toluene (108-88-3)	
IARC group	3 - Not classifiable
butyl glycolether (111-76-2)	
IARC group	3 - Not classifiable
N-methyl-2-pyrrolidone (872-50-4)	
NOAEL (chronic, oral, animal/male, 2 years)	≈ 89 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Guideline: EU Method B.32 (Carcinogenicity Test), Guideline: EPA OTS 798.3300 (Carcinogenicity), Remarks on results: other:Effect type: toxicity (migrated information)
NOAEL (chronic, oral, animal/female, 2 years)	≈ 221 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Guideline: EU Method B.32 (Carcinogenicity Test), Guideline: EPA OTS 798.3300 (Carcinogenicity), Remarks on results: other:Effect type: toxicity (migrated information)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
acetone (67-64-1)	
LOAEL (animal/female, F0/P)	11298 mg/kg bodyweight Animal: mouse, Animal sex: female
NOAEL (animal/male, F0/P)	900 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Generation not specified (migrated information)
STOT-single exposure	: May cause drowsiness or dizziness.
acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
Methyl ethyl ketone (78-93-3)	
STOT-single exposure	May cause drowsiness or dizziness.
1,2,4 Trimethylbenzene (95-63-6)	
STOT-single exposure	May cause respiratory irritation.
Methyl isobutyl ketone (108-10-1)	
STOT-single exposure	May cause respiratory irritation.
Cumene (98-82-8)	
STOT-single exposure	May cause respiratory irritation.
toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness.
cyclohexane (110-82-7)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
1,2,4 Trimethylbenzene (95-63-6)	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	1.8 mg/l air Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
Methyl isobutyl ketone (108-10-1)	
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	4.106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

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Xylene (1330-20-7)	
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
Ethylbenzene (100-41-4)	
NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents)
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
toluene (108-88-3)	
LOAEL (oral, rat, 90 days)	1250 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
STOT-repeated exposure	May cause damage to organs (central nervous system) through prolonged or repeated exposure (if inhaled).
butyl glycolether (111-76-2)	
NOAEL (dermal, rat/rabbit, 90 days)	> 150 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
N-methyl-2-pyrrolidone (872-50-4)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (dermal, rat/rabbit, 90 days)	826 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.5 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
MOLY-MIST™ Aerosol	
Vaporizer	Aerosol
Propane (74-98-6)	
Vaporizer	Aerosol
Viscosity, kinematic	0.016 mm²/s
acetone (67-64-1)	
Viscosity, kinematic	0.417 mm²/s
Methyl ethyl ketone (78-93-3)	
Viscosity, kinematic	0.494 mm ² /s
methyl propyl ketone (107-87-9)	
Viscosity, kinematic	No data available in the literature
1,2,4 Trimethylbenzene (95-63-6)	
Viscosity, kinematic	0.843 mm²/s (20 °C)
Methyl isobutyl ketone (108-10-1)	
Viscosity, kinematic	0.001 mm²/s (25 °C, Calculated)
Cumene (98-82-8)	
Viscosity, kinematic	0.74 mm²/s Temp.: 'other:37.78°C' Parameter: 'kinematic viscosity (in mm²/s)'

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Xylene (1330-20-7)		
Viscosity, kinematic	0.74 mm²/s (20 °C)	
Ethylbenzene (100-41-4)		
Viscosity, kinematic	0.773 mm²/s (20 °C, OECD 114: Viscosity of Liquids)	
toluene (108-88-3)		
Viscosity, kinematic	0.69 mm²/s (20 °C)	
cyclohexane (110-82-7)		
Viscosity, kinematic	0 mm²/s (26 °C)	
butyl glycolether (111-76-2)		
Viscosity, kinematic	2.284 mm²/s (40 °C)	
N-methyl-2-pyrrolidone (872-50-4)		
Viscosity, kinematic	1.7 mm²/s (25 °C)	
naphtha (petroleum), hydrotreated heavy (64742-48-9)		
Viscosity, kinematic	< 1 mm²/s Temp.: 'other:37.8°C' Parameter: 'kinematic viscosity (in mm²/s)'	

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Toxic to aquatic life with long lasting effects.

Not rapidly degradable

Not rapidly degradable		
Propane (74-98-6)		
LC50 - Fish [1]	24 mg/l (96 h, Pisces, Literature study)	
LC50 - Fish [2]	49.9 mg/l (96 h, Pisces, Fresh water, QSAR)	
EC50 - Crustacea [1]	7 mg/l (48 h, Daphnia magna, Literature study)	
acetone (67-64-1)		
LC50 - Fish [1]	5540 mg/l (EU Method C.1, 96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 96h - Algae [1]	> 7000 mg/l (Selenastrum capricornutum, Static system, Fresh water, Experimental value, Nominal concentration)	
LOEC (chronic)	> 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
Methyl ethyl ketone (78-93-3)		
LC50 - Fish [1]	2993 mg/l Test organisms (species): Pimephales promelas	
EC50 - Crustacea [1]	308 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
ErC50 algae	1972 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)	
NOEC chronic algae	93 mg/l	
methyl propyl ketone (107-87-9)		
LC50 - Fish [1]	1210 mg/l	

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methyl propyl ketone (107-87-9)	
EC50 - Crustacea [1]	> 110 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 150 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	> 150 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
1,2,4 Trimethylbenzene (95-63-6)	
LC50 - Fish [1]	7.72 mg/l (96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	6.14 mg/l
EC50 96h - Algae [1]	2.356 mg/l (ECOSAR, Algae, Fresh water, QSAR)
Methyl isobutyl ketone (108-10-1)	
LC50 - Fish [1]	505 mg/l
LC50 - Fish [2]	> 179 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	1250 mg/l
EC50 96h - Algae [1]	400 mg/l (Selenastrum capricornutum, Literature study, Growth rate)
NOEC chronic fish	57 mg/l
NOEC chronic crustacea	7.8 mg/l
Cumene (98-82-8)	
LC50 - Fish [1]	2.7 mg/l
LC50 - Fish [2]	4.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	1.2 mg/l
EC50 72h - Algae [1]	2.01 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	1.29 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	2.01 mg/l (EU Method C.3, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
NOEC (chronic)	0.35 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.38 mg/l Test organisms (species): other:D. rerio and P. promelas Duration: '28 d'
NOEC chronic crustacea	0.35 mg/l
NOEC chronic algae	0.22 mg/l
Xylene (1330-20-7)	
LC50 - Fish [1]	3.3 mg/l
EC50 - Crustacea [1]	7.4 mg/l
EC50 72h - Algae [1]	3.2 – 4.9 mg/l (Selenastrum capricornutum, Growth)
ErC50 algae	4.36 mg/l (OECD 201: Alga, Growth Inhibition Test, 73 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
Ethylbenzene (100-41-4)	
LC50 - Fish [1]	3.7 mg/l
EC50 - Crustacea [1]	0.42 mg/l
EC50 72h - Algae [1]	4.9 mg/l Test organisms (species): Skeletonema costatum
EC50 72h - Algae [2]	5.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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Ethylbenzene (100-41-4)	
EC50 96h - Algae [1]	7.7 mg/l Test organisms (species): Skeletonema costatum
EC50 96h - Algae [2]	3.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic crustacea	0.956 mg/l
toluene (108-88-3)	
LC50 - Fish [1]	5.5 mg/l Test organisms (species): Oncorhynchus kisutch
EC50 - Crustacea [1]	3.78 mg/l
LOEC (chronic)	2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic fish	1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d'
NOEC chronic crustacea	0.74 mg/l
cyclohexane (110-82-7)	
LC50 - Fish [1]	4.53 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	0.9 mg/l
EC50 72h - Algae [1]	3.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	9.317 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	9.317 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Experimental value, GLP)
NOEC chronic algae	0.94 mg/l
butyl glycolether (111-76-2)	
LC50 - Fish [1]	116 mg/l
EC50 - Crustacea [1]	130 mg/l
EC50 72h - Algae [1]	911 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	1840 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '21 d'
N-methyl-2-pyrrolidone (872-50-4)	
LC50 - Fish [1]	> 500 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	1107 mg/l (EPA 660/3 - 75/009, 96 h, Palaemonetes vulgaris, Static system, Salt water, Experimental value)
EC50 - Crustacea [2]	> 1000 mg/l (DIN 38412-11, 24 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 72h - Algae [1]	600.5 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	> 500 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
LOEC (chronic)	25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	12.5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	12.5 mg/l

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naphtha (petroleum), hydrotreated heavy (64742-48-9)		
LC50 - Fish [1]	2200 mg/l Source: IUCLID	
LC50 - Other aquatic organisms [1]	2.6 mg/l Source: IUCLID	
12.2. Persistence and degradability		
Propane (74-98-6)		
Persistence and degradability	Readily biodegradable in water.	
acetone (67-64-1)		
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.43 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.92 g O ₂ /g substance	
ThOD	2.2 g O ₂ /g substance	
BOD (% of ThOD)	0.872 (20 day(s), Literature study)	
Methyl ethyl ketone (78-93-3)		
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	2.03 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.31 g O ₂ /g substance	
ThOD	2.44 g O ₂ /g substance	
methyl propyl ketone (107-87-9)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
1,2,4 Trimethylbenzene (95-63-6)		
Persistence and degradability	Not readily biodegradable in water.	
Chemical oxygen demand (COD)	0.44 g O ₂ /g substance	
Methyl isobutyl ketone (108-10-1)		
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	2.06 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.16 g O ₂ /g substance	
ThOD	2.72 g O ₂ /g substance	
BOD (% of ThOD)	0.76	
Cumene (98-82-8)		
Persistence and degradability	Not readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.28 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.42 g O ₂ /g substance	
ThOD	3.2 g O ₂ /g substance	
Xylene (1330-20-7)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	1.4 – 2.53 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.56 – 2.91 g O ₂ /g substance	
ThOD	3.1 g O ₂ /g substance	
BOD (% of ThOD)	0.44 – 0.816	
Ethylbenzene (100-41-4)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	

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Ethylbenzene (100-41-4)

1.44 g O ₂ /g substance
2.1 g O ₂ /g substance
3.17 g O ₂ /g substance
Biodegradable in the soil. Readily biodegradable in water.
2.15 g O₂/g substance
2.52 g O ₂ /g substance
3.13 g O ₂ /g substance
0.69
Not degradable in the soil. Readily biodegradable in water.
0.22 g O₂/g substance
3.425 g O ₂ /g substance
Readily biodegradable in water.
Biodegradable in the soil. Readily biodegradable in water.
1.07 g O₂/g substance
1.56 g O₂/g substance
1.9 g O ₂ /g substance
0.56
9 – 25 (Pisces, QSAR)
1.09 – 2.8 (Experimental value, 20 °C)
Low potential for bioaccumulation (Log Kow < 4).
0.69 (Pisces)
3 (BCFWIN, Calculated value)
-0.24 (Test data)
Not bioaccumulative.
0.3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40 °C)
Low potential for bioaccumulation (Log Kow < 4).
0.857 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Low potential for bioaccumulation (Log Kow < 4).
243 (Pimephales promelas, QSAR)
243 (Pimephales promelas, QSAR) 3.63 (Experimental value, KOWWIN)

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Methyl isobutyl ketone (108-10-1)	
BCF - Fish [1]	2 – 5 (Pisces, Estimated value)
Partition coefficient n-octanol/water (Log Pow)	1.9 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Cumene (98-82-8)	
BCF - Other aquatic organisms [1]	94.69 l/kg (BCFBAF v3.00, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	3.55 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 23 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Xylene (1330-20-7)	
BCF - Fish [1]	7.2 – 25.9 (56 day(s), Oncorhynchus mykiss, Flow-through system, Fresh water, Readacross)
BCF - Fish [2]	14.1 – 15 (Carassius auratus)
Partition coefficient n-octanol/water (Log Pow)	3.2 (Read-across, 20 °C)
Ethylbenzene (100-41-4)	
BCF - Fish [1]	1 – 2.4 (Other, 6 week(s), Oncorhynchus kisutch, Flow-through system, Salt water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	3.6 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
toluene (108-88-3)	
BCF - Fish [1]	90 (72 h, Leuciscus idus, Static system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	2.73 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
cyclohexane (110-82-7)	
BCF - Fish [1]	167 (Pimephales promelas, QSAR)
Partition coefficient n-octanol/water (Log Pow)	3.44 (Experimental value, Other, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
butyl glycolether (111-76-2)	
Partition coefficient n-octanol/water (Log Pow)	0.81 (Test data, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
N-methyl-2-pyrrolidone (872-50-4)	
BCF - Other aquatic organisms [1]	3 (Calculated value)
Partition coefficient n-octanol/water (Log Pow)	-0.46 Source: ECHA
Bioaccumulative potential	Not bioaccumulative.
naphtha (petroleum), hydrotreated heavy (64	742-48-9)
Partition coefficient n-octanol/water (Log Pow)	2.1 – 6 Source: IUCLID
12.4. Mobility in soil	
Propane (74-98-6)	0.040 N/w / 47.00
Surface tension	0.016 N/m (-47 °C)
Ecology - soil	Not applicable.
acetone (67-64-1)	0.0007.11/
Surface tension	0.0237 N/m
Ecology - soil	No (test) data on mobility of the substance available.

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Methyl ethyl ketone (78-93-3)	
Surface tension	0.024 N/m (20 °C)
Organic Carbon Normalized Adsorption Coefficient	1.53 (log Koc, Calculated value)
(Log Koc)	,
Ecology - soil	Highly mobile in soil. Slightly harmful to plants.
methyl propyl ketone (107-87-9)	
Surface tension	23.87 mN/m (20 °C, 100 %, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.915 – 1.624 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.
1,2,4 Trimethylbenzene (95-63-6)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.04 (log Koc, Calculated value)
Ecology - soil	Low potential for mobility in soil. May be harmful to plant growth, blooming and fruit formation.
Methyl isobutyl ketone (108-10-1)	
Mobility in soil	101.85 Source: ECHA
Surface tension	0.024 N/m (20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.008 (log Koc, Weight of evidence, Calculated value)
Ecology - soil	Low potential for adsorption in soil.
Cumene (98-82-8)	
Surface tension	28.2 mN/m (20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.946 (log Koc, Calculated value)
Ecology - soil	Low potential for adsorption in soil.
Xylene (1330-20-7)	
Mobility in soil	537 Source: ECHA
Surface tension	28.01 – 29.76 mN/m (25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.73 (log Koc, Equivalent or similar to OECD 121, Read-across)
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.
Ethylbenzene (100-41-4)	
Surface tension	0.071 N/m (23 °C, 0.0582 g/l, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.71 (log Koc, PCKOCWIN v1.66, QSAR)
Ecology - soil	Low potential for adsorption in soil. Toxic to soil organisms.
toluene (108-88-3)	
Surface tension	27.73 N/m (25 °C)
Ecology - soil	Low potential for adsorption in soil.
cyclohexane (110-82-7)	
Mobility in soil	770 Source: ECHA
Surface tension	0.025 N/m (20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.89 (log Koc, QSAR)
Ecology - soil	Low potential for adsorption in soil.

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

butyl glycolether (111-76-2)			
Surface tension	65.03 mN/m (20 °C, 2 g/l)		
Ecology - soil	Low potential for adsorption in soil.		
N-methyl-2-pyrrolidone (872-50-4)			
Surface tension	0.407 N/m		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.32 (log Koc, Calculated value)		
Ecology - soil	Highly mobile in soil.		

12.5. Results of PBT and vPvB assessment

Component	
Propane (74-98-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
acetone (67-64-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Methyl ethyl ketone (78-93-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
methyl propyl ketone (107-87-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,2,4 Trimethylbenzene (95-63-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Methyl isobutyl ketone (108-10-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Cumene (98-82-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Xylene (1330-20-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
2-phenoxyethanol (122-99-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Ethylbenzene (100-41-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
toluene (108-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
cobalt(II) 2-ethylhexanoate (136-52-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
cyclohexane (110-82-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
butyl glycolether (111-76-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
N-methyl-2-pyrrolidone (872-50-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1950	UN 1950 UN 1950		UN 1950	UN 1950

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID		
14.2. UN proper shipping name						
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS		
Transport document descr	iption					
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS		
14.3. Transport hazard o	class(es)					
2.1	2.1	2.1	2.1	2.1		
1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1	**************************************	1 1 1 1 1 1 1 1 1 1		
14.4. Packing group						
Not applicable	Not applicable Not applicable		Not applicable	Not applicable		
14.5. Environmental hazards						
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes		
No supplementary information available						

14.6. Special precautions for user

Overland transport

: 5F Classification code (ADR)

: 190, 327, 344, 625 Special provisions (ADR)

Limited quantities (ADR) : 11 Excepted quantities (ADR) : E0

: P207, LP200 Packing instructions (ADR) Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR) : MP9 Transport category (ADR) : 2 Special provisions for carriage - Packages (ADR) : V14 Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV9, CV12

Special provisions for carriage - Operation (ADR) : S2 Tunnel restriction code (ADR) : D

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959

Limited quantities (IMDG) : SP277 Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P207, LP200 Special packing provisions (IMDG) : PP87, L2 : F-D EmS-No. (Fire) EmS-No. (Spillage) : S-U Stowage category (IMDG) : None Stowage and handling (IMDG) : SW1, SW22 Segregation (IMDG) : SG69

Air transport

PCA Excepted quantities (IATA) : E0 PCA Limited quantities (IATA) : Y203 PCA limited quantity max net quantity (IATA) : 30kgG : 203 PCA packing instructions (IATA)

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PCA max net quantity (IATA) : 75kg
CAO packing instructions (IATA) : 203
CAO max net quantity (IATA) : 150kg

Special provisions (IATA) : A145, A167, A802

ERG code (IATA) : 10L

Inland waterway transport

Classification code (ADN) : 5F

Special provisions (ADN) : 190, 327, 344, 625

Limited quantities (ADN) : 1 L

Excepted quantities (ADN) : E0

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01, VE04

Number of blue cones/lights (ADN) : 1

Rail transport

Classification code (RID) : 5F

Special provisions (RID) : 190, 327, 344, 625

Limited quantities (RID) : 1L Excepted quantities (RID) : E0

Packing instructions (RID) : P207, LP200 Special packing provisions (RID) : PP87, RR6, L2

Mixed packing provisions (RID) : MP9

Transport category (RID) : 2

Special provisions for carriage – Packages (RID) : W14

Special provisions for carriage - Loading, : CW9, CW12

unloading and handling (RID)

Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 23

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: 1-Methyl-2-pyrrolidone (NMP) (EC 212-828-1, CAS 872-50-4)

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Acetone	67-64-1	2914 11 00	ex 3824 99 92
Name	CAS-No. Combined Nomenclature code (CN)		Combined Nomenclature code for mixture without constituents which would determine classification under another CN code

Please see https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives_en

Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Acetone		67-64-1	2914 11 00	Category 3		Annex I
Methylethylketone	Butanone	78-93-3	2914 12 00	Category 3		Annex I
Toluene		108-88-3	2902 30 00	Category 3		Annex I

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Of	ther information
Abbreviations ar	nd acronyms:
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
WGK	Water Hazard Class
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic

Safety Data Sheet

Abbreviations and acronyms:		
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH	H-statements:
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
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.
H361d	Suspected of damaging the unborn child.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
Press. Gas	Gases under pressure
Repr. 2	Reproductive toxicity, Category 2
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, Narcosis

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.