

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form	: Mixture
Trade name	: KEMTHINNER 5L/20L
UFI	: YP00-60M5-W002-FE0Y
Product code	: 15.11801-5 / 15.11801-20
Product group	

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

Main use category	: Professional use
Industrial/Professional use spec	: For professional use only
Use of the substance/mixture	: Cleaning of application accessories and paint touch-ups (spray guns, cups, etc)
Use of the substance/mixture	: Cleaning solvent

Uses advised against

Restrictions on use	: Manufacture of food products
---------------------	--------------------------------

1.3. Details of the supplier of the safety data sheet

KEMTEX - H.C.T. nv
Europalaan 24b
9800 DEINZE (Belgie)

T +32 9 380 45 43

Email : mail@kemtex.be - www.kemtex.be

1.4. Emergency telephone number

No additional information available

Poison Control Centre BE: 070/245 245 (24/7)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Flammable liquids, Category 2	H225
Acute toxicity (inhalation:vapour) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Carcinogenicity, Category 2	H351
Reproductive toxicity, Category 2	H361d
Specific target organ toxicity – Single exposure, Category 3,	H336
Narcosis	
Specific target organ toxicity – Single exposure, Category 3,	H335
Respiratory tract irritation	
Specific target organ toxicity – Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard,	H412
Category 3	

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

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Suspected of causing cancer (if inhaled). Suspected of damaging fertility. (if inhaled). May cause damage to organs (genital organs) through prolonged or repeated exposure (inhalation). May cause drowsiness or dizziness. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

KEMTHINNER 5L/20L

Safety Data Sheet

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

2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS05

GHS07

GHS08

Signal word (CLP)

: Danger

Contains

: 4-methylpentan-2-one; isobutyl methyl ketone; toluene; ethylbenzene; butan-1-ol; n-butanol; xylene

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
H351 - Suspected of causing cancer (if inhaled).
H361d - Suspected of damaging the unborn child.
H373 - May cause damage to organs (hearing organs) through prolonged or repeated exposure (in contact with skin).
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing vapours.
P280 - Wear protective clothing, eye protection, face protection.
P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER. Do NOT induce vomiting.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.
EUH066 - Repeated exposure may cause skin dryness or cracking.
This product is not to be used under conditions of poor ventilation.
This product is not to be used for carpet laying.

EUH-statements

Extra phrases

2.3. Other hazards

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

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 substance(s) are 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 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
xylene substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216-32	0 – 50	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l/4h) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Skin Irrit. 2, H315

KEMTHINNER 5L/20L

Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
toluene substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3 REACH-no: 01-2119471310-51	0 – 40	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 3, H412
acetone; propan-2-one; propanone substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8	0 – 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
butanone; ethyl methyl ketone substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3	0 – 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
n-butyl acetate substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1	0 – 30	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066
ethyl acetate substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5	0 – 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
isobutyl acetate substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit (Note C)	CAS-No.: 110-19-0 EC-No.: 203-745-1 EC Index-No.: 607-026-00-7	0 – 30	Flam. Liq. 2, H225 EUH066
4-methylpentan-2-one; isobutyl methyl ketone substance with national workplace exposure limit(s) (FR); 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 – 15	Flam. Liq. 2, H225 Carc. 2, H351 Acute Tox. 4 (Inhalation:vapour), H332 (ATE=11 mg/l) STOT SE 3, H336 Eye Irrit. 2, H319 EUH066
butan-1-ol; n-butanol substance with national workplace exposure limit(s) (FR)	CAS-No.: 71-36-3 EC-No.: 200-751-6 EC Index-No.: 603-004-00-6	0 – 15	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336
2-methylpropan-1-ol; iso-butanol substance with national workplace exposure limit(s) (FR)	CAS-No.: 78-83-1 EC-No.: 201-148-0 EC Index-No.: 603-108-00-1	0 – 15	Flam. Liq. 3, H226 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336
propan-2-ol; isopropyl alcohol; isopropanol substance with national workplace exposure limit(s) (FR)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	0 – 15	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

KEMTHINNER 5L/20L

Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-methoxy-2-propanol; monopropylene glycol methyl ether substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3 REACH-no: 01-2119457435-35	0 – 15	Flam. Liq. 3, H226 STOT SE 3, H336
ethanol; ethyl alcohol substance with national workplace exposure limit(s) (FR)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	0 – 15	Flam. Liq. 2, H225
ethylbenzene substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4 REACH-no: 01-2119489370-35	0 – 10	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l/4h) STOT RE 2, H373 Asp. Tox. 1, H304
Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).]	CAS-No.: 64742-94-5 EC-No.: 265-198-5 EC Index-No.: 649-424-00-3	0 – 10	Asp. Tox. 1, H304
2-methoxy-1-methylethyl acetate substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 108-65-6 EC-No.: 203-603-9 EC Index-No.: 607-195-00-7 REACH-no: 01-2119475791-29	0 – 5	Flam. Liq. 3, H226
2-butoxyethanol; ethylene glycol monobutyl ether substance with national workplace exposure limit(s) (FR); 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 – 3	Acute Tox. 3 (Inhalation:vapour), H331 (ATE=3 mg/l) Acute Tox. 4 (Oral), H302 (ATE=1200 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319
heptan-2-one; methyl amyl ketone substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 110-43-0 EC-No.: 203-767-1 EC Index-No.: 606-024-00-3	0 – 3	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l/4h) Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)
propan-1-ol; n-propanol substance with national workplace exposure limit(s) (FR)	CAS-No.: 71-23-8 EC-No.: 200-746-9 EC Index-No.: 603-003-00-0	0 – 2	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics substance with national workplace exposure limit(s) (FR)	CAS-No.: none available EC-No.: 920-750-0	0 – 1.5	Flam. Liq. 2, H225 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066
propyl acetate substance with national workplace exposure limit(s) (FR) (Note C)	CAS-No.: 109-60-4 EC-No.: 203-686-1 EC Index-No.: 607-024-00-6	0 – 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066

KEMTHINNER 5L/20L

Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
isopropyl acetate substance with national workplace exposure limit(s) (FR) (Note C)	CAS-No.: 108-21-4 EC-No.: 203-561-1 EC Index-No.: 607-024-00-6	0 – 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
butan-2-ol substance with national workplace exposure limit(s) (FR) (Note C)	CAS-No.: 78-92-2 EC-No.: 201-158-5 EC Index-No.: 603-127-00-5	0 – 1	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335 STOT SE 3, H336
1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether	CAS-No.: 1569-02-4 EC-No.: 216-374-5 EC Index-No.: 603-177-00-8	0 – 1	Flam. Liq. 3, H226 STOT SE 3, H336
methanol substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119392409- 28	0 – 0.9	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 (ATE=3 mg/l/4h) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) STOT SE 1, H370

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
methanol	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119392409- 28	(3 ≤ C < 10) STOT SE 2; H371 (10 ≤ C ≤ 100) STOT SE 1; H370

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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	: In case of repeated or prolonged exposure : Get medical advice/attention if you feel unwell. Never give liquid to a person showing signs of being sleepy or with reduced awareness.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Never attempt to induce vomiting. Call a POISON CENTER/doctor.
First-aid measures for first aider	: First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: May cause respiratory irritation. Vomiting. Drowsiness. Dizziness, headaches, nausea.
Symptoms/effects after skin contact	: Irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Serious damage to eyes.

KEMTHINNER 5L/20L

Safety Data Sheet

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

Symptoms/effects after ingestion : Risk of lung oedema.

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. AFFF.
Unsuitable extinguishing media : high volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
Explosion hazard : Explosive vapour/air mixtures may be formed.
Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO₂).

5.3. Advice for firefighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so.
Firefighting instructions : Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is no direct contact between the water and the product. Contain the extinguishing fluids by bunding.
Protection during firefighting : Protective non-flammable clothing. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. Wear suitable working clothes.
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe vapours. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Remove all sources of ignition. Avoid contact with skin, eyes and clothing.

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".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Prevent environmental discharge consistent with regulatory requirements. Do not allow to enter drains or water courses. Relevant water authorities should be notified of any large spillage to water course or drain.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Vermiculite. Sand/earth.
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information : Dispose of contaminated material at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

KEMTHINNER 5L/20L

Safety Data Sheet

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	: Use only non-sparking tools. Do not handle until all safety precautions have been read and understood. Use non-sparking tools. Avoid contact with skin, eyes and clothing. Provide good ventilation in process area to prevent formation of vapour. Do not breathe vapours. Remove all sources of ignition. Do not use compressed air to transfer, discharge or transport the product. Proper grounding procedures to avoid static electricity should be followed.
Hygiene measures	: Always wash hands after handling the product. Do not drink, eat or smoke in the workplace. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. The floor of the depot must be impermeable, non-combustible and designed to form a basin, in order that stored flammable liquids should not, under any circumstances, be released outside.
Storage conditions	: Keep in a cool, well-ventilated place. Keep the container hermetically sealed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible materials	: Oxidising agents. Strong acids. Strong bases.
Special rules on packaging	: Store in a closed container.
Packaging materials	: Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

acetone; propan-2-one; propanone (67-64-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Acetone
IOEL TWA	1210 mg/m ³
	500 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
France - Occupational Exposure Limits	
Local name	Acétone
VME (OEL TWA)	1210 mg/m ³
	500 ppm
VLE (OEL C/STEL)	2420 mg/m ³
	1000 ppm
Remark	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
butanone; ethyl methyl ketone (78-93-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Butanone

KEMTHINNER 5L/20L

Safety Data Sheet

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

butanone; ethyl methyl ketone (78-93-3)	
IOEL TWA	600 mg/m ³
	200 ppm
IOEL STEL	900 mg/m ³
	300 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
France - Occupational Exposure Limits	
Local name	Méthyléthylcétone (2-Butanone)
VME (OEL TWA)	600 mg/m ³
	200 ppm
VLE (OEL C/STEL)	900 mg/m ³
	300 ppm
Remark	Valeurs règlementaires contraignantes. Risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	4-Methylpentan-2-one
IOEL TWA	83 mg/m ³
	20 ppm
IOEL STEL	208 mg/m ³
	50 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
France - Occupational Exposure Limits	
Local name	Méthylisobutylcétone (4-Méthyl-2-pentanone)
VME (OEL TWA)	83 mg/m ³
	20 ppm
VLE (OEL C/STEL)	208 mg/m ³
	50 ppm
Remark	Valeurs règlementaires contraignantes. Cancérogène de catégorie 2
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
n-butyl acetate (123-86-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	n-Butyl acetate
IOEL TWA	241 mg/m ³
	50 ppm
IOEL STEL	723 mg/m ³
	150 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831

KEMTHINNER 5L/20L

Safety Data Sheet

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

n-butyl acetate (123-86-4)	
France - Occupational Exposure Limits	
Local name	Acétate de n-butyle
VME (OEL TWA)	241 mg/m ³
	50 ppm
VLE (OEL C/STEL)	723 mg/m ³
	150 ppm
Remark	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2021-1849)
ethyl acetate (141-78-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethyl acetate
IOEL TWA	734 mg/m ³
	200 ppm
IOEL STEL	1468 mg/m ³
	400 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
France - Occupational Exposure Limits	
Local name	Acétate d'éthyle
VME (OEL TWA)	734 mg/m ³
	200 ppm
VLE (OEL C/STEL)	1468 mg/m ³
	400 ppm
Remark	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
propyl acetate (109-60-4)	
France - Occupational Exposure Limits	
Local name	Acétate de n-propyle
VME (OEL TWA)	840 mg/m ³
	200 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
2-methoxy-1-methylethyl acetate (108-65-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Methoxy-1-methylethylacetate
IOEL TWA	275 mg/m ³
	50 ppm
IOEL STEL	550 mg/m ³

KEMTHINNER 5L/20L

Safety Data Sheet

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

2-methoxy-1-methylethyl acetate (108-65-6)	
	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
France - Occupational Exposure Limits	
Local name	Acétate de 2-méthoxy-1-méthyléthyle
VME (OEL TWA)	275 mg/m ³
	50 ppm
VLE (OEL C/STEL)	550 mg/m ³
	100 ppm
Remark	Valeurs réglementaires contraignantes. Risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
isobutyl acetate (110-19-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Isobutyl acetate
IOEL TWA	241 mg/m ³
	50 ppm
IOEL STEL	723 mg/m ³
	150 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831
France - Occupational Exposure Limits	
Local name	Acétate d'isobutyle
VME (OEL TWA)	241 mg/m ³
	50 ppm
VLE (OEL C/STEL)	723 mg/m ³
	150 ppm
Remark	Valeurs réglementaires contraignantes
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2021-1849)
isopropyl acetate (108-21-4)	
France - Occupational Exposure Limits	
Local name	Acétate d'isopropyle
VME (OEL TWA)	950 mg/m ³
	250 ppm
VLE (OEL C/STEL)	1140 mg/m ³
	300 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)

KEMTHINNER 5L/20L

Safety Data Sheet

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

toluene (108-88-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Toluene
IOEL TWA	192 mg/m ³
	50 ppm
IOEL STEL	384 mg/m ³
	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
France - Occupational Exposure Limits	
Local name	Toluène
VME (OEL TWA)	76.8 mg/m ³
	20 ppm
VLE (OEL C/STEL)	384 mg/m ³
	100 ppm
Remark	Valeurs réglementaires contraignantes. Toxique pour la reproduction de catégorie 2, Risque de pénétration percutanée. Ces valeurs sont assorties de la mention "bruit" indiquant la possibilité d'une atteinte auditive en cas de co-exposition au bruit.
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849; Décret n° 2024-307)
ethylbenzene (100-41-4)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylbenzene
IOEL TWA	442 mg/m ³
	100 ppm
IOEL STEL	884 mg/m ³
	200 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
France - Occupational Exposure Limits	
Local name	Ethylbenzène
VME (OEL TWA)	88.4 mg/m ³
	20 ppm
VLE (OEL C/STEL)	442 mg/m ³
	100 ppm
Remark	Valeurs réglementaires contraignantes. Risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)

KEMTHINNER 5L/20L

Safety Data Sheet

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

butan-1-ol; n-butanol (71-36-3)	
France - Occupational Exposure Limits	
Local name	Alcool n-butylique
VLE (OEL C/STEL)	150 mg/m ³
	50 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
2-methylpropan-1-ol; iso-butanol (78-83-1)	
France - Occupational Exposure Limits	
Local name	Alcool isobutylique
VME (OEL TWA)	150 mg/m ³
	50 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
propan-1-ol; n-propanol (71-23-8)	
France - Occupational Exposure Limits	
Local name	Alcool n-propylique
VME (OEL TWA)	500 mg/m ³
	200 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
France - Occupational Exposure Limits	
Local name	Alcool isopropylique
VLE (OEL C/STEL)	980 mg/m ³
	400 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
butan-2-ol (78-92-2)	
France - Occupational Exposure Limits	
Local name	Alcool sec-butylique
VME (OEL TWA)	300 mg/m ³
	100 ppm
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	1-Methoxypropanol-2
IOEL TWA	375 mg/m ³

KEMTHINNER 5L/20L

Safety Data Sheet

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

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
	100 ppm
IOEL STEL	568 mg/m ³
	150 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
France - Occupational Exposure Limits	
Local name	1-Méthoxy-2-propanol (Ether méthylique du propylène-glycol)
VME (OEL TWA)	188 mg/m ³
	50 ppm
VLE (OEL C/STEL)	375 mg/m ³
	100 ppm
Remark	Valeurs règlementaires contraignantes. Risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
methanol (67-56-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Methanol
IOEL TWA	260 mg/m ³
	200 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
France - Occupational Exposure Limits	
Local name	Méthanol (alcool méthylique)
VME (OEL TWA)	260 mg/m ³
	200 ppm
VLE (OEL C/STEL)	1300 mg/m ³
	1000 ppm
Remark	Valeurs règlementaires contraignantes. Risque de pénétration percutanée. La VLEP CT n'est pas réglementaire et provient d'une circulaire du ministère chargé du travail
Regulatory reference	Article R4412-149 du Code du travail et circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
ethanol; ethyl alcohol (64-17-5)	
France - Occupational Exposure Limits	
Local name	Alcool éthylique
VME (OEL TWA)	1900 mg/m ³
	1000 ppm
VLE (OEL C/STEL)	9500 mg/m ³
	5000 ppm
Remark	Valeurs recommandées/admises

KEMTHINNER 5L/20L

Safety Data Sheet

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

ethanol; ethyl alcohol (64-17-5)	
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (none available)	
France - Occupational Exposure Limits	
Local name	Hydrocarbures en C6-C12 (ensemble des, vapeurs)
VME (OEL TWA)	100 mg/m ³
VLE (OEL C/STEL)	1500 mg/m ³
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 6443, 2022; Outil65)
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Butoxyethanol
IOEL TWA	98 mg/m ³
	20 ppm
IOEL STEL	246 mg/m ³
	50 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
France - Occupational Exposure Limits	
Local name	2-Butoxyéthanol (Butylglycol)
VME (OEL TWA)	49 mg/m ³
	10 ppm
VLE (OEL C/STEL)	246 mg/m ³
	50 ppm
Remark	Valeurs réglementaires contraignantes. Risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
heptan-2-one; methyl amyl ketone (110-43-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Heptan-2-one
IOEL TWA	238 mg/m ³
	50 ppm
IOEL STEL	475 mg/m ³
	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
France - Occupational Exposure Limits	
Local name	Méthyl-n-amylcétone (2-Heptanone)
VME (OEL TWA)	238 mg/m ³
	50 ppm
VLE (OEL C/STEL)	475 mg/m ³

KEMTHINNER 5L/20L

Safety Data Sheet

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

heptan-2-one; methyl amyl ketone (110-43-0)	
	100 ppm
Remark	Valeurs réglementaires contraignantes. Risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)
xylene (1330-20-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Xylene, mixed isomers, pure
IOEL TWA	221 mg/m ³
	50 ppm
IOEL STEL	442 mg/m ³
	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
France - Occupational Exposure Limits	
Local name	Xylène, isomères mixtes, purs
VME (OEL TWA)	221 mg/m ³
	50 ppm
VLE (OEL C/STEL)	442 mg/m ³
	100 ppm
Remark	Valeurs réglementaires contraignantes. Risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 6443, 2022; Outil65; Décret n° 2019-1487; Décret n° 2020-1546; Décret n° 2021-434; Décret n° 2021-1849)

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Extraction to remove vapours at their source. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Eye and face protection

Eye protection:

Sealed safety goggles

Skin protection

Skin and body protection:

Use chemically protective clothing

Hand protection:

Nitrile-rubber protective gloves. Protective gloves made of PVA. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard ISO 374-1

Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

KEMTHINNER 5L/20L

Safety Data Sheet

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

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	: Colourless.
Appearance	: Liquid.
Odour	: Solvent.
Odour threshold	: Not available
Melting point	: -95 °C
Freezing point	: Not available
Boiling point	: 56 – 165 °C
Flammability	: Highly flammable liquid and vapour.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 0 – 23 °C
Auto-ignition temperature	: > 300 °C
Decomposition temperature	: > 200 °C
pH	: > 7 – < 9
pH solution concentration	: ≈ 50 %
Viscosity, kinematic	: < 7 mm ² /s
Solubility	: Water: 20 %
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: < 110 kPa
Density	: Not available
Relative density	: ≈ 0.85
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

VOC content : < 850 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

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. Avoid the build-up of electrostatic charge.

10.5. Incompatible materials

Oxidising agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

KEMTHINNER 5L/20L

Safety Data Sheet

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

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Inhalation:vapour: Harmful if inhaled.

Rinse Solvent	
ATE CLP (vapours)	11.918 mg/l/4h
acetone; propan-2-one; propanone (67-64-1)	
LD50 oral rat	5800 mg/kg Source: ECHA
LD50 dermal rabbit	> 7400 mg/kg Source: ECHA
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
butanone; ethyl methyl ketone (78-93-3)	
LD50 oral rat	2193 mg/kg Source: ECHA
LD50 dermal rabbit	> 10 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	32 mg/l Source: RTECS
4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)	
LD50 oral rat	2080 mg/kg Source: ECHA
LD50 dermal rabbit	≥ 2000 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	11.6 mg/l Source: ECHA
n-butyl acetate (123-86-4)	
LD50 oral rat	3200 ml/kg Source: ECHA
LD50 dermal rabbit	> 17600 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	1802 mg/l Source: ECHA
ethyl acetate (141-78-6)	
LD50 oral rat	11.3 ml/kg Source: ECHA
LD50 oral	4934 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 20000 mg/kg bodyweight Animal: rabbit, Animal sex: male
propyl acetate (109-60-4)	
LD50 oral rat	8700 mg/kg Source: ECHA
LD50 dermal rabbit	> 17800 mg/kg Source: ECHA
LC50 Inhalation - Rat	≈ 32 mg/l air Animal: rat
2-methoxy-1-methylethyl acetate (108-65-6)	
LD50 oral rat	8532 mg/kg Source: International Uniform Chemical Information Database
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 5000 mg/kg Source: International Uniform Chemical Information Database
isobutyl acetate (110-19-0)	
LD50 oral rat	13413 mg/kg Source: ECHA

KEMTHINNER 5L/20L

Safety Data Sheet

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

isobutyl acetate (110-19-0)	
LD50 dermal rabbit	> 17400 mg/kg Source: ECHA
LC50 Inhalation - Rat	> 23.4 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Vapours)	30 mg/l Source: ECHA
isopropyl acetate (108-21-4)	
LD50 oral rat	3000 mg/kg Source: ECHA
LD50 dermal rabbit	> 20 mg/kg Source: ChemIDPlus
toluene (108-88-3)	
LD50 oral rat	5580 mg/kg Source: ECHA
LD50 dermal rabbit	> 5000 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	> 20 mg/l Source: ECHA
ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg Source: ECHA, HSDB
LD50 dermal rabbit	> 20000 mg/kg Source: ECHA
LC50 Inhalation - Rat [ppm]	4000 ppm Source: ECHA, Harmonized classification of EU CLP
Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)	
LD50 oral rat	> 5000 mg/kg Source: IUCLID
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:
LD50 dermal rabbit	> 2000 mg/kg Source: RTECS
LC50 Inhalation - Rat (Dust/Mist)	> 0.59 mg/l Source: RTECS
butan-1-ol; n-butanol (71-36-3)	
LD50 oral rat	2292 mg/kg Source: ECHA
LD50 dermal rabbit	3430 mg/kg Source: ECHA
LC50 Inhalation - Rat [ppm]	8000 ppm Source: ECHA
2-methylpropan-1-ol; iso-butanol (78-83-1)	
LD50 oral rat	2460 mg/kg Source: ECHA
LD50 dermal rabbit	2460 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	19.6 mg/l Source: ECHA
propan-1-ol; n-propanol (71-23-8)	
LD50 oral rat	1870 mg/kg Source: ECHA
LD50 dermal rabbit	4302 mg/kg Source: ECHA
LC50 Inhalation - Rat (Vapours)	33.8 mg/l Source: ECHA
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LD50 oral rat	5840 mg/kg Source: ECHA
LD50 dermal rabbit	12800 mg/kg Source: ECHA

KEMTHINNER 5L/20L

Safety Data Sheet

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

butan-2-ol (78-92-2)	
LD50 oral rat	2054 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg Source: ECHA
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
LD50 oral rat	4016 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal rabbit	> 2000 mg/kg Source: ECHA
methanol (67-56-1)	
LD50 oral rat	100 mg/kg Source: National Institute of Environmental Research NCIS
LD50 dermal rabbit	300 mg/kg Source: ECHA
ethanol; ethyl alcohol (64-17-5)	
LD50 oral rat	7060 mg/kg Source: ECHA
LD50 oral	8300 mg/kg bodyweight Animal: mouse
LC50 Inhalation - Rat (Vapours)	116.9 mg/l Source: ECHA
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (none available)	
LD50 dermal rat	2800 – 3100 mg/kg bodyweight Animal: rat
LC50 Inhalation - Rat	> 23.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
LD50 oral	1414 mg/kg bodyweight Animal: guinea pig, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1020 - 1961
LD50 dermal rat	> 2000 mg/kg Source: ECHA
heptan-2-one; methyl amyl ketone (110-43-0)	
LD50 oral rat	1600 mg/kg Source: ECHA
LD50 dermal rat	10300 mg/kg Source: ECHA
LC50 Inhalation - Rat	> 16.7 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation))
LC50 Inhalation - Rat (Vapours)	> 16.7 mg/l Source: ECHA
1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether (1569-02-4)	
LD50 oral rat	4400 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal rabbit	8100 mg/kg
LC50 Inhalation - Rat	> 9.59 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation))
LC50 Inhalation - Rat [ppm]	10000 ppm
xylene (1330-20-7)	
LD50 oral rat	3523 mg/kg Source: ECHA
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male
LC50 Inhalation - Rat [ppm]	5922 ppm

Skin corrosion/irritation : Causes skin irritation.
pH: > 7 – < 9

KEMTHINNER 5L/20L

Safety Data Sheet

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

acetone; propan-2-one; propanone (67-64-1)	
pH	5 Source: ECHA
n-butyl acetate (123-86-4)	
pH	6.2 Source: ECHA
isobutyl acetate (110-19-0)	
pH	6.7 Temp.: 20 °C Concentration: (≈)5 g/L
methanol (67-56-1)	
pH	12.1 Source: Gestis
ethanol; ethyl alcohol (64-17-5)	
pH	7 Source: chemicalbook
Serious eye damage/irritation	: Causes serious eye damage. pH: > 7 – < 9
acetone; propan-2-one; propanone (67-64-1)	
pH	5 Source: ECHA
n-butyl acetate (123-86-4)	
pH	6.2 Source: ECHA
isobutyl acetate (110-19-0)	
pH	6.7 Temp.: 20 °C Concentration: (≈)5 g/L
methanol (67-56-1)	
pH	12.1 Source: Gestis
ethanol; ethyl alcohol (64-17-5)	
pH	7 Source: chemicalbook
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Suspected of causing cancer (if inhaled).
4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)	
IARC group	2B - Possibly carcinogenic to humans,2B - Possibly carcinogenic to humans
toluene (108-88-3)	
IARC group	3 - Not classifiable,3 - Not classifiable
ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans,2B - Possibly carcinogenic to humans
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
IARC group	3 - Not classifiable,3 - Not classifiable
ethanol; ethyl alcohol (64-17-5)	
IARC group	1 - Carcinogenic to humans,1 - Carcinogenic to humans
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
IARC group	3 - Not classifiable,3 - Not classifiable
xylene (1330-20-7)	
IARC group	3 - Not classifiable,3 - Not classifiable

KEMTHINNER 5L/20L

Safety Data Sheet

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

Reproductive toxicity : Suspected of damaging the unborn child.

acetone; propan-2-one; propanone (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
Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)	
NOAEL (animal/male, F0/P)	35 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
NOAEL (animal/female, F0/P)	125 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
STOT-single exposure	: May cause drowsiness or dizziness. May cause respiratory irritation.
acetone; propan-2-one; propanone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.
butanone; ethyl methyl ketone (78-93-3)	
STOT-single exposure	May cause drowsiness or dizziness.
4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)	
STOT-single exposure	May cause drowsiness or dizziness.
n-butyl acetate (123-86-4)	
STOT-single exposure	May cause drowsiness or dizziness.
ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.
propyl acetate (109-60-4)	
STOT-single exposure	May cause drowsiness or dizziness.
isopropyl acetate (108-21-4)	
STOT-single exposure	May cause drowsiness or dizziness.
toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness.
butan-1-ol; n-butanol (71-36-3)	
STOT-single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
2-methylpropan-1-ol; iso-butanol (78-83-1)	
STOT-single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
propan-1-ol; n-propanol (71-23-8)	
STOT-single exposure	May cause drowsiness or dizziness.
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

KEMTHINNER 5L/20L

Safety Data Sheet

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

butan-2-ol (78-92-2)	
STOT-single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
STOT-single exposure	May cause drowsiness or dizziness.
methanol (67-56-1)	
STOT-single exposure	Causes damage to organs.
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (none available)	
STOT-single exposure	May cause drowsiness or dizziness.
1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether (1569-02-4)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: May cause damage to organs (hearing organs) through prolonged or repeated exposure (in contact with skin).
4-methylpentan-2-one; isobutyl methyl 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 Study in Rodents)
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study 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)
n-butyl acetate (123-86-4)	
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)
ethyl acetate (141-78-6)	
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)
propyl acetate (109-60-4)	
LOAEC (inhalation, rat, vapour, 90 days)	2.1409 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
2-methoxy-1-methylethyl acetate (108-65-6)	
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
isobutyl acetate (110-19-0)	
NOAEL (oral, rat, 90 days)	316 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
isopropyl acetate (108-21-4)	
LOAEC (inhalation, rat, vapour, 90 days)	2.1409 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)

KEMTHINNER 5L/20L

Safety Data Sheet

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

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 through prolonged or repeated exposure.
ethylbenzene (100-41-4)	
NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	May cause damage to organs (hearing organs) through prolonged or repeated exposure.
Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)	
LOAEC (inhalation, rat, vapour, 90 days)	4.71 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
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)
2-methylpropan-1-ol; iso-butanol (78-83-1)	
NOAEL (oral, rat, 90 days)	> 1450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
propan-1-ol; n-propanol (71-23-8)	
LOAEL (oral, rat, 90 days)	≤ 0.8 mg/kg bodyweight Animal: rat, Animal sex: male
NOAEL (oral, rat, 90 days)	> 0.003 mg/kg bodyweight Animal: rat, Animal sex: male
NOAEC (inhalation, rat, vapour, 90 days)	8 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: other.:, Guideline: other:
NOAEL (subchronic, oral, animal/male, 90 days)	> 4000 mg/kg bodyweight Animal: mouse, Animal sex: male
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
LOAEL (oral, rat, 90 days)	2757 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	919 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
ethanol; ethyl alcohol (64-17-5)	
NOAEL (subchronic, oral, animal/male, 90 days)	< 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	> 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (none available)	
NOAEC (inhalation, rat, vapour, 90 days)	24.3 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

KEMTHINNER 5L/20L

Safety Data Sheet

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

2-butoxyethanol; ethylene glycol monobutyl ether (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)
1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether (1569-02-4)	
LOAEC (inhalation, rat, vapour, 90 days)	8.36 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (oral, rat, 90 days)	< 1792 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	1800 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
NOAEC (inhalation, rat, vapour, 90 days)	1.266 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

Aspiration hazard : May be fatal if swallowed and enters airways.

Rinse Solvent	
Viscosity, kinematic	< 7 mm ² /s
butanone; ethyl methyl ketone (78-93-3)	
Viscosity, kinematic	0.497 mm ² /s
n-butyl acetate (123-86-4)	
Viscosity, kinematic	0.83 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)'
propyl acetate (109-60-4)	
Viscosity, kinematic	0.652 mm ² /s
isobutyl acetate (110-19-0)	
Viscosity, kinematic	0.803 mm ² /s
butan-1-ol; n-butanol (71-36-3)	
Viscosity, kinematic	3.641 mm ² /s
2-methylpropan-1-ol; iso-butanol (78-83-1)	
Viscosity, kinematic	4.989 mm ² /s
propan-1-ol; n-propanol (71-23-8)	
Viscosity, kinematic	2.82 mm ² /s
butan-2-ol (78-92-2)	
Viscosity, kinematic	3.807 mm ² /s
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Viscosity, kinematic	1.848 mm ² /s
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (none available)	
Viscosity, kinematic	0.715 – 0.786 mm ² /s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm ² /s)'
heptan-2-one; methyl amyl ketone (110-43-0)	
Viscosity, kinematic	0.979 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)'

11.2. Information on other hazards

No additional information available

KEMTHINNER 5L/20L

Safety Data Sheet

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

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

acetone; propan-2-one; propanone (67-64-1)	
LC50 - Fish [1]	5540 mg/l Source: ECHA
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'
butanone; ethyl methyl ketone (78-93-3)	
LC50 - Fish [1]	2993 mg/l Source: ECHA
EC50 - Crustacea [1]	308 mg/l Source: ECHA
EC50 72h - Algae [1]	1220 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	2029 mg/l Source: ECHA
4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)	
LC50 - Fish [1]	672 mg/l Source: ECHA
EC50 - Crustacea [1]	> 200 mg/l Test organisms (species): Daphnia magna
n-butyl acetate (123-86-4)	
LC50 - Fish [1]	18 mg/l Source: ECHA
EC50 - Crustacea [1]	44 mg/l Source: ECHA
EC50 72h - Algae [1]	335 mg/l Source: ECHA
EC50 72h - Algae [2]	246 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	47.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	23.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
ethyl acetate (141-78-6)	
LC50 - Fish [1]	230 mg/l Source: ECHA
NOEC (chronic)	2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
propyl acetate (109-60-4)	
LC50 - Fish [1]	60 mg/l Source: ECHA
EC50 - Crustacea [1]	91.5 mg/l Source: ECHA
EC50 72h - Algae [1]	672 mg/l Source: ECHA
2-methoxy-1-methylethyl acetate (108-65-6)	
LC50 - Fish [1]	≥ 100 mg/l Source: SIDS
EC50 - Crustacea [1]	373 mg/l Source: SIDS
EC50 72h - Algae [1]	≥ 1000 mg/l Source: SIDS
NOEC (chronic)	≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'

KEMTHINNER 5L/20L

Safety Data Sheet

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

isobutyl acetate (110-19-0)	
LC50 - Fish [1]	16.6 mg/l Source: ECHA
EC50 - Crustacea [1]	26.8 mg/l Source: ECHA
EC50 72h - Algae [1]	397 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	246 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
ErC50 algae	397 mg/l Source: ECHA
LOEC (chronic)	47.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	23.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
isopropyl acetate (108-21-4)	
LC50 - Fish [1]	396 mg/l Source: ECHA
EC50 - Other aquatic organisms [1]	110 mg/l Test organisms (species): Artemia salina
EC50 72h - Algae [1]	370 mg/l Source: ECHA
toluene (108-88-3)	
LC50 - Fish [1]	5.5 mg/l Source: ECHA
EC50 - Crustacea [1]	3.78 mg/l Source: ECHA
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'
ethylbenzene (100-41-4)	
LC50 - Fish [1]	5.1 mg/l Source: ECHA
EC50 72h - Algae [1]	5.4 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	4.9 mg/l Test organisms (species): Skeletonema costatum
EC50 96h - Algae [1]	2.6 mg/l Source: ECHA
EC50 96h - Algae [2]	7.7 mg/l Test organisms (species): Skeletonema costatum
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'
Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)	
LC50 - Fish [1]	45 mg/l Source: IUCLID
LC50 - Fish [2]	6.1 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	0.95 mg/l Source: IUCLID
EC50 - Other aquatic organisms [1]	2.9 mg/l Test organisms (species): other:
EC50 72h - Algae [1]	2.5 mg/l Source: IUCLID
NOEC chronic fish	0.05 mg/l for 60 days (Oncorhynchus mykiss (Rainbow trout) (Quantitative Structure Activity Relationship (QSAR))

KEMTHINNER 5L/20L

Safety Data Sheet

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

Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)	
NOEC chronic crustacea	0.09 mg/l for 21 days (Daphnia magna (Water Flea) (Quantitative Structure Activity Relationship (QSAR)))
NOEC chronic algae	0.22 mg/l pour 72 h (Raphidocelis subcapitata (méthode OCDE 201) (Fraction adaptée à l'eau (WAF))
butan-1-ol; n-butanol (71-36-3)	
LC50 - Fish [1]	1376 mg/l Source: ECHA
EC50 - Crustacea [1]	1983 mg/l Source: ECHA
EC50 96h - Algae [1]	225 mg/l Source: ECHA
NOEC (chronic)	4.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2-methylpropan-1-ol; iso-butanol (78-83-1)	
LC50 - Fish [1]	1430 mg/l Source: ECHA
EC50 - Crustacea [1]	1100 mg/l Source: ECHA
EC50 72h - Algae [1]	593 mg/l Source: ECHA
NOEC (chronic)	20 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
propan-1-ol; n-propanol (71-23-8)	
LC50 - Fish [1]	4555 mg/l Source: ECHA
EC50 - Crustacea [1]	3644 mg/l Test organisms (species): Daphnia magna
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LC50 - Fish [1]	9640 mg/l Source: ECHA
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas
butan-2-ol (78-92-2)	
LC50 - Fish [1]	3520 mg/l Source: ECHA
EC50 - Crustacea [1]	308 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
LC50 - Fish [1]	≥ 1000 mg/l Source: EHCA
EC50 - Crustacea [1]	21100 – 25900 mg/l Source: ECHA
EC50 - Other aquatic organisms [1]	2954 mg/l Test organisms (species): other aquatic crustacea:
EC50 72h - Algae [1]	> 500 mg/l Source: EHCA
methanol (67-56-1)	
LC50 - Fish [1]	15400 mg/l Source: ECHA
EC50 96h - Algae [1]	22000 mg/l Source: ECHA
NOEC (chronic)	208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	446.7 mg/l Test organisms (species): Pimephales promelas Duration: '28 d'

KEMTHINNER 5L/20L

Safety Data Sheet

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

ethanol; ethyl alcohol (64-17-5)	
LC50 - Fish [1]	> 100 mg/l Source: SIDS 2005
ErC50 algae	275 mg/l Source: ECHA
NOEC (chronic)	9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d'
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (none available)	
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
LC50 - Fish [1]	1474 mg/l Source: ECHA
EC50 - Crustacea [1]	1800 mg/l Source: ECHA
EC50 72h - Algae [1]	911 mg/l Source: ECHA
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'
heptan-2-one; methyl amyl ketone (110-43-0)	
LC50 - Fish [1]	131 mg/l Source: ECHA
EC50 - Crustacea [1]	> 90.1 mg/l Source: ECHA
EC50 72h - Algae [1]	75.5 mg/l Source: ECHA
EC50 72h - Algae [2]	75.5 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether (1569-02-4)	
LC50 - Fish [1]	560 – 1000 mg/l Test organisms (species): Poecilia reticulata
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	> 180 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 260 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '21 d'
xylene (1330-20-7)	
LC50 - Fish [1]	2.6 mg/l Source: ECHA
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
12.2. Persistence and degradability	
Rinse Solvent	
Persistence and degradability	Not rapidly degradable
acetone; propan-2-one; propanone (67-64-1)	
Persistence and degradability	Not rapidly degradable
butanone; ethyl methyl ketone (78-93-3)	
Persistence and degradability	Not rapidly degradable

KEMTHINNER 5L/20L

Safety Data Sheet

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

4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)	
Persistence and degradability	Not rapidly degradable
n-butyl acetate (123-86-4)	
Persistence and degradability	Not rapidly degradable
ethyl acetate (141-78-6)	
Persistence and degradability	Not rapidly degradable
propyl acetate (109-60-4)	
Persistence and degradability	Not rapidly degradable
2-methoxy-1-methylethyl acetate (108-65-6)	
Persistence and degradability	Not rapidly degradable
isobutyl acetate (110-19-0)	
Persistence and degradability	Not rapidly degradable
isopropyl acetate (108-21-4)	
Persistence and degradability	Not rapidly degradable
toluene (108-88-3)	
Persistence and degradability	Not rapidly degradable
ethylbenzene (100-41-4)	
Persistence and degradability	Not rapidly degradable
Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)	
Persistence and degradability	Not rapidly degradable
butan-1-ol; n-butanol (71-36-3)	
Persistence and degradability	Not rapidly degradable
2-methylpropan-1-ol; iso-butanol (78-83-1)	
Persistence and degradability	Not rapidly degradable
propan-1-ol; n-propanol (71-23-8)	
Persistence and degradability	Not rapidly degradable
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Persistence and degradability	Not rapidly degradable
butan-2-ol (78-92-2)	
Persistence and degradability	Not rapidly degradable
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Persistence and degradability	Not rapidly degradable
methanol (67-56-1)	
Persistence and degradability	Not rapidly degradable

KEMTHINNER 5L/20L

Safety Data Sheet

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

ethanol; ethyl alcohol (64-17-5)	
Persistence and degradability	Not rapidly degradable
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics (none available)	
Persistence and degradability	Not rapidly degradable
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)	
Persistence and degradability	Not rapidly degradable
heptan-2-one; methyl amyl ketone (110-43-0)	
Persistence and degradability	Not rapidly degradable
1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether (1569-02-4)	
Persistence and degradability	Not rapidly degradable
xylene (1330-20-7)	
Persistence and degradability	Not rapidly degradable
12.3. Bioaccumulative potential	
acetone; propan-2-one; propanone (67-64-1)	
Partition coefficient n-octanol/water (Log Pow)	-0.24 Source: ICSC
butanone; ethyl methyl ketone (78-93-3)	
Partition coefficient n-octanol/water (Log Pow)	0.29 Source: ICSC
4-methylpentan-2-one; isobutyl methyl ketone (108-10-1)	
Partition coefficient n-octanol/water (Log Pow)	1.31 Source: ChemIDPlus
n-butyl acetate (123-86-4)	
Partition coefficient n-octanol/water (Log Pow)	1.78 Source: HSDB
ethyl acetate (141-78-6)	
Partition coefficient n-octanol/water (Log Pow)	0.73 Source: ICSC
propyl acetate (109-60-4)	
Partition coefficient n-octanol/water (Log Pow)	1.24 Source: ICSC, HSDB
2-methoxy-1-methylethyl acetate (108-65-6)	
Partition coefficient n-octanol/water (Log Pow)	0.43 Source: International Uniform Chemical Information Database
isobutyl acetate (110-19-0)	
Partition coefficient n-octanol/water (Log Pow)	1.6 Source: ICSC
isopropyl acetate (108-21-4)	
Partition coefficient n-octanol/water (Log Pow)	1.28 Source: ECHA
toluene (108-88-3)	
Partition coefficient n-octanol/water (Log Pow)	2.73 Source: HSDB
ethylbenzene (100-41-4)	
Partition coefficient n-octanol/water (Log Pow)	3.15 Source: HSDB

KEMTHINNER 5L/20L

Safety Data Sheet

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

Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] (64742-94-5)

Partition coefficient n-octanol/water (Log Pow)	2.9 – 6.1 Source: IUCLID
-------------------------------------------------	--------------------------

butan-1-ol; n-butanol (71-36-3)

Partition coefficient n-octanol/water (Log Pow)	1 Source: ECHA
-------------------------------------------------	----------------

2-methylpropan-1-ol; iso-butanol (78-83-1)

Partition coefficient n-octanol/water (Log Pow)	0.8 Source: ChemIDPlus
-------------------------------------------------	------------------------

propan-1-ol; n-propanol (71-23-8)

Partition coefficient n-octanol/water (Log Pow)	0.25 Source: HSDB
-------------------------------------------------	-------------------

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Partition coefficient n-octanol/water (Log Pow)	0.05 Source: ICSC
-------------------------------------------------	-------------------

butan-2-ol (78-92-2)

Partition coefficient n-octanol/water (Log Pow)	0.6 Source: ICSC
-------------------------------------------------	------------------

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)

Partition coefficient n-octanol/water (Log Pow)	-0.49 Source: HSDB
-------------------------------------------------	--------------------

methanol (67-56-1)

Partition coefficient n-octanol/water (Log Pow)	-0.77 Source: HSDB, ChemIDplus
-------------------------------------------------	--------------------------------

ethanol; ethyl alcohol (64-17-5)

Partition coefficient n-octanol/water (Log Pow)	-0.32 Source: ICSC
-------------------------------------------------	--------------------

2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)

Partition coefficient n-octanol/water (Log Pow)	0.81 Source: ECHA
-------------------------------------------------	-------------------

heptan-2-one; methyl amyl ketone (110-43-0)

Partition coefficient n-octanol/water (Log Pow)	2.26 Source: ECHA
-------------------------------------------------	-------------------

1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether (1569-02-4)

Partition coefficient n-octanol/water (Log Pow)	0
-------------------------------------------------	---

xylene (1330-20-7)

Partition coefficient n-octanol/water (Log Pow)	3.15 Source: HSDB
-------------------------------------------------	-------------------

12.4. Mobility in soil

methanol (67-56-1)

Mobility in soil	2.75 Source: HSDB
------------------	-------------------

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

KEMTHINNER 5L/20L

Safety Data Sheet

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

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions. Discharging into rivers and drains is forbidden. Do not discharge the product into the environment.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Flammable vapours may accumulate in the container. Do not re-use empty containers. The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.
HP Code	: HP3 - "Flammable:" – flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C; – flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air; – flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction; – flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa; – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities; – other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration. HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure. HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR

14.1. UN number or ID number

UN-No. (ADR) : UN 1993

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, N.O.S. (; n-butyl acetate ; n-butyl acetate ; toluene)
Transport document description (ADR) (ADR) : UN 1993 FLAMMABLE LIQUID, N.O.S. (; n-butyl acetate ; n-butyl acetate ; toluene), 3, II, (D/E)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3

KEMTHINNER 5L/20L

Safety Data Sheet

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



14.4. Packing group

Packing group (ADR) : II

14.5. Environmental hazards

Dangerous for the environment : No
Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 274, 601, 640D
Limited quantities (ADR) : 1I
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T7
Portable tank and bulk container special provisions (ADR) : TP1, TP8, TP28
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation (ADR) : S2, S20
Hazard identification number (Kemler No.) : 33
Orange plates :



Tunnel restriction code (ADR) : D/E

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

KEMTHINNER 5L/20L

Safety Data Sheet

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

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	acetone; propan-2-one; propanone ; butanone; ethyl methyl ketone ; 4-methylpentan-2-one; isobutyl methyl ketone ; n-butyl acetate ; ethyl acetate ; propyl acetate ; 2-methoxy-1-methylethyl acetate ; isobutyl acetate ; isopropyl acetate ; toluene ; ethylbenzene ; butan-1-ol; n-butanol ; 2-methylpropan-1-ol; isobutanol ; propan-1-ol; n-propanol ; propan-2-ol; isopropyl alcohol; isopropanol ; butan-2-ol ; 1-methoxy-2-propanol; monopropylene glycol methyl ether ; methanol ; ethanol; ethyl alcohol ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; heptan-2-one; methyl amyl ketone ; 1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F

KEMTHINNER 5L/20L

Safety Data Sheet

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

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	acetone; propan-2-one; propanone ; butanone; ethyl methyl ketone ; 4-methylpentan-2-one; isobutyl methyl ketone ; n-butyl acetate ; ethyl acetate ; propyl acetate ; isopropyl acetate ; toluene ; ethylbenzene ; Solvent naphtha (petroleum), heavy arom.; Kerosine—unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).] ; butan-1-ol; n-butanol ; 2-methylpropan-1-ol; iso-butanol ; propan-1-ol; n-propanol ; propan-2-ol; isopropyl alcohol; isopropanol ; butan-2-ol ; 1-methoxy-2-propanol; monopropylene glycol methyl ether ; methanol ; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics ; 2-butoxyethanol; ethylene glycol monobutyl ether ; heptan-2-one; methyl amyl ketone ; 1-ethoxypropan-2-ol; 2PG1EE; 1-ethoxy-2-propanol; propylene glycol monoethyl ether	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

KEMTHINNER 5L/20L

Safety Data Sheet

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

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(c)	Solvent naphtha (petroleum), heavy arom.; Kerosine— unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).]; Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
48.	toluene	Toluene
69.	methanol	Methanol

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

Contains organic solvents ($\geq 1\%$)

VOC content : < 850 g/l

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 within 24 hours.

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

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)

KEMTHINNER 5L/20L

Safety Data Sheet

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

Name	CN designation	CAS-No.	CN code	Category, Subcategory	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

National regulations

France

Occupational diseases			
Code	Description		
RG 4 BIS	Gastrointestinal disorders caused by benzene, toluene, xylenes and all products containing them		
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide		
Installations classées			
No ICPE	Désignation de la rubrique	Code Régime	Rayon
4130.text	Toxicité aiguë catégorie 3 pour les voies d'exposition par inhalation.		
4130.1a	1. Substances et mélanges solides. La quantité totale susceptible d'être présente dans l'installation étant : a) Supérieure ou égale à 50 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	A	1
4130.1b	1. Substances et mélanges solides. La quantité totale susceptible d'être présente dans l'installation étant : b) Supérieure ou égale à 5 t, mais inférieure à 50 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	D	
4130.2a	2. Substances et mélanges liquides. La quantité totale susceptible d'être présente dans l'installation étant : a) Supérieure ou égale à 10 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	A	1
4130.2b	2. Substances et mélanges liquides. La quantité totale susceptible d'être présente dans l'installation étant : b) Supérieure ou égale à 1 t, mais inférieure à 10 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	D	
4130.3a	3. Gaz ou gaz liquéfiés. La quantité totale susceptible d'être présente dans l'installation étant : a) Supérieure ou égale à 2 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	A	3
4130.3b	3. Gaz ou gaz liquéfiés. La quantité totale susceptible d'être présente dans l'installation étant : b) Supérieure ou égale à 200 kg, mais inférieure à 2 t Quantité seuil bas au sens de l'article R. 511-10 : 50 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	D	

KEMTHINNER 5L/20L

Safety Data Sheet

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

4331.text	Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :		
4331.1	1. Supérieure ou égale à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	A	2
4331.2	2. Supérieure ou égale à 100 t mais inférieure à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	E	
4331.3	3. Supérieure ou égale à 50 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	DC	
4510.text	Dangereux pour l'environnement aquatique de catégorie aiguë 1 ou chronique 1.		
4510.1	La quantité totale susceptible d'être présente dans l'installation étant : 1. Supérieure ou égale à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 100 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	A	1
4510.2	La quantité totale susceptible d'être présente dans l'installation étant : 2. Supérieure ou égale à 20 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 100 t. Quantité seuil haut au sens de l'article R. 511-10 : 200 t.	DC	

Germany

Air Quality Control (TA Luft)					
Category	Class	Applicable on	Local name	Max. mass flow	Max. mass concentration

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ACGIH	American Conference of Government Industrial Hygienists
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)
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level

KEMTHINNER 5L/20L

Safety Data Sheet

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

Abbreviations and acronyms:	
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
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
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3

KEMTHINNER 5L/20L

Safety Data Sheet

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

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1	Serious eye damage/eye irritation, 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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer (if inhaled).
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H371	May cause damage to organs.
H373	May cause damage to organs (hearing organs) through prolonged or repeated exposure (in contact with skin).
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2

KEMTHINNER 5L/20L

Safety Data Sheet

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

Full text of H- and EUH-statements:

STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 1	Specific target organ toxicity – single exposure, Category 1
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 2	H225	On basis of test data
Acute Tox. 4 (Inhalation:vapour)	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Carc. 2	H351	Calculation method
Repr. 2	H361d	Calculation method
STOT SE 3	H336	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 3	H412	Calculation method

The classification complies with : ATP 12

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.