

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

1.1. Product identifier

Product form : Mixture
Trade name : Rubio Monocoat Grease Remover
UFI : TY00-Q04S-P005-3HY5

Type of product : Detergent

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use, Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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Ambachtenstraat 58
B 8870 Izegem
Belgium
T +32 (0) 51 30 80 54, F +32 (0) 51 30 99 78
info@rubiomonocoat.com, www.rubiomonocoat.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Australia	NSW Poisons Information Centre The Children's Hospital at Westmead	Locked Bag 4001 NSW 2145	13 11 26	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

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

Serious eye damage/eye irritation, Category 2 H319

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



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	GHS02	GHS07
CLP Signal word	: Danger	
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation.	
Precautionary statements (CLP)	: P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment.	
Extra phrases	: For professional users only.	

Nordic countries regulation

Denmark

MAL code : 2

2.3. Other hazards

Other hazards not contributing to the classification	: IMPORTANT: Fire Risk, this product contains linseed oil! Cloths, rags or any other combustible, absorbent material used to apply the product or to clean up a spill, may spontaneously combust. These materials should be abundantly rinsed with water prior to their disposal in a fire-resistant container.
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Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Ethanol (64-17-5)	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
Butanone (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

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

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol substance with national workplace exposure limit(s) (BE, DK, FR, GB, NL, NO, CH)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	96	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Butanone substance with national workplace exposure limit(s) (BE, DK, GB, NL, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3 REACH-no: 01-2119457290-43	2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propaan-2-ol; isopropylalcohol; isopropanol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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	: If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation persists, take medical advice.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. irritation persists.
First-aid measures after ingestion	: Do NOT induce vomiting. Call a physician immediately.

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

Symptoms/effects	: If you feel unwell, seek medical advice.
Symptoms/effects after inhalation	: Inhalation may cause irritation, cough, shortness of breath. May cause drowsiness or dizziness. Obtain medical attention if breathing difficulty persists.
Symptoms/effects after skin contact	: Remove all contaminated clothing and footwear. If on skin : Wash with plenty of soap and water. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Irritating to eyes. Rinse immediately with plenty of water for 15 minutes. Consult a doctor.
Symptoms/effects after ingestion	: Seek a medical assistance, even if there are no immediate symptoms. Show this safety data sheet to the doctor or emergency department.

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

Show this safety data sheet to the doctor or emergency department.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water mist, carbonic acid, foam or powder against ambient fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Heating may cause a fire or explosion. This product is flammable.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Precautionary measures fire	: Evacuate area.
Firefighting instructions	: Eliminate all ignition sources if safe to do so. Fight fire remotely due to the risk of explosion. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Self-contained breathing apparatus. Complete protective clothing. Do not attempt to take action without suitable protective equipment.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Eliminate every possible source of ignition. No naked flames, sparks, and do not smoke.

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not get in eyes, on skin, or on clothing. Use personal protective equipment - see point 8. Limit spread.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Do not attempt to take action without suitable protective equipment.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid discharge into the sewer - see point 12. Inform the local environmental authorities in the event of a release to the surroundings.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Liquid is absorbed with granules or similar. Collect in suitable containers. Rinse thoroughly with water. Further handling of spillage - see point 13. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

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

6.4. Reference to other sections

See above (see point 6.1/6.2/6.3).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Eliminate all ignition sources if safe to do so. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharge.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Use only non-sparking tools. Take precautionary measures against static discharge.

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

Storage area : Store away from direct sunlight or other heat sources.

7.3. Specific end use(s)

See application - point 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Ethanol (64-17-5)

Belgium - Occupational Exposure Limits

Local name	Alcool éthylique # Ethanol
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Limit value [mg/m³]	1907 mg/m³
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Limit value [ppm]	1000 ppm
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Ethanol (64-17-5)	
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
Denmark - Occupational Exposure Limits	
Local name	Ethanol
Grænseværdi (8 timer) (mg/m³)	1900 mg/m³
Grænseværdi (8 timer) (ppm)	1000 ppm
Grænseværdi (STEL) (mg/m³)	3800 mg/m³
Grænseværdi (STEL) (ppm)	2000 ppm
France - Occupational Exposure Limits	
VME [mg/m³]	1900 mg/m³
VME [ppm]	1000 ppm
VLE [mg/m³]	9500 mg/m³
VLE [ppm]	5000 ppm
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m³)	260 mg/m³
Grenswaarde TGG 8H (ppm)	137 ppm
Grenswaarde TGG 15MIN (mg/m³)	1900 mg/m³
Grenswaarde TGG 15MIN (ppm)	1000 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Ethanol
WEL TWA (mg/m³)	1920 mg/m³
WEL TWA (ppm)	1000 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Norway - Occupational Exposure Limits	
Local name	Etanol
Grenseverdier (AN) (mg/m³)	950 mg/m³
Switzerland - Occupational Exposure Limits	
Local name	Ethanol
VME [mg/m³]	960 mg/m³
VME [ppm]	500 ppm
VLE [mg/m³]	1920 mg/m³
VLE [ppm]	1000 ppm
Notation	SSC Keine Schädigung der Leibesfrucht bei Einhaltung des MAK-Werts
Remark	Messmethoden = INRS + NIOSH
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethanol
ACGIH STEL (ppm)	1000 ppm
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2023

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Butanone (78-93-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOELV TWA (mg/m³)	600 mg/m³
IOELV TWA (ppm)	200 ppm
IOELV STEL (mg/m³)	900 mg/m³
IOELV STEL (ppm)	300 ppm
Belgium - Occupational Exposure Limits	
Local name	2-Butanone # 2-Butanon
Limit value [mg/m³]	600 mg/m³
Limit value [ppm]	200 ppm
Short time value [mg/m³]	900 mg/m³
Short time value [ppm]	300 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
Denmark - Occupational Exposure Limits	
Local name	Butanon
Grænseværdi (8 timer) (mg/m³)	145 mg/m³
Grænseværdi (8 timer) (ppm)	50 ppm
Grænseværdi (STEL) (mg/m³)	900 mg/m³
Grænseværdi (STEL) (ppm)	300 ppm
Remark	EH
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m³)	590 mg/m³
Grenswaarde TGG 8H (ppm)	200 ppm
Grenswaarde TGG 15MIN (mg/m³)	900 mg/m³
Grenswaarde TGG 15MIN (ppm)	300 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Butan-2-one (methyl ethyl ketone)
WEL TWA (mg/m³)	600 mg/m³
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m³)	899 mg/m³
WEL STEL (OEL STEL) [ppm]	300 ppm
Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	Butan-2-one (methyl ethyl ketone)
BMGV	70 µmol/l Parameter: butan-2-one - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Norway - Occupational Exposure Limits	
Local name	Butanon

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Butanone (78-93-3)	
Grenseverdier (AN) (mg/m³)	220 mg/m³
Remark	E
Switzerland - Occupational Exposure Limits	
Local name	2-Butanon
VME [mg/m³]	590 mg/m³
VME [ppm]	200 ppm
VLE [mg/m³]	590 mg/m³
VLE [ppm]	200 ppm
Notation	SSC Keine Schädigung der Leibesfrucht bei Einhaltung des MAK-Werts
Remark	Messmethoden = NIOSH + OSHA + INRS H= Hautresorption B= Biologisches Monitoring
Switzerland - BAT	
Local name	2-Butanon (MEK)
BAT	2 mg/l
Remark	Untersuchungsmaterial = U Urin Probennahmezeitpunkt = d bzw. 16h + b
USA - ACGIH - Occupational Exposure Limits	
Local name	Methyl ethyl ketone (MEK)
ACGIH TWA (ppm)	200 ppm
ACGIH STEL (ppm)	300 ppm
Remark (ACGIH)	TLV® Basis: URT irr; CNS & PNS impair. Notations: BEI
Regulatory reference	ACGIH 2023
USA - ACGIH - Biological Exposure Indices	
Local name	METHYL ETHYL KETONE
Biological Exposure Indices (BEI)	2 mg/l Parameter: Methyl ethyl ketone - Medium: urine - Sampling time: End of shift - Notations: Ns
Regulatory reference	ACGIH 2023
propaan-2-ol; isopropylalcohol; isopropanol (67-63-0)	
Belgium - Occupational Exposure Limits	
Local name	Alcool isopropylique # Isopropylalcohol
Limit value [mg/m³]	500 mg/m³
Limit value [ppm]	200 ppm
Short time value [mg/m³]	1000 mg/m³
Short time value [ppm]	400 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
Denmark - Occupational Exposure Limits	
Local name	Propaan-2-ol
Grænseværdi (8 timer) (mg/m³)	490 mg/m³
Grænseværdi (STEL) (mg/m³)	980 mg/m³

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propaan-2-ol; isopropylalcohol; isopropanol (67-63-0)	
Germany - Occupational Exposure Limits (TRGS 900)	
Occupational exposure limit value (mg/m³)	500 mg/m³
Limitation of exposure peaks (mg/m³)	1000 mg/m³
Netherlands - Occupational Exposure Limits	
Grenswaarde TGG 8H (mg/m³)	650 mg/m³
Grenswaarde TGG 15MIN (mg/m³)	0 mg/m³
United Kingdom - Occupational Exposure Limits	
Local name	Propan-2-ol
WEL TWA (mg/m³)	999 mg/m³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m³)	1250 mg/m³
WEL STEL (OEL STEL) [ppm]	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Norway - Occupational Exposure Limits	
Local name	2-propanol
Grenseverdier (AN) (mg/m³)	245 mg/m³
Remark	H
Switzerland - Occupational Exposure Limits	
Local name	2-Propanol
VME [mg/m³]	500 mg/m³
VME [ppm]	200 ppm
VLE [mg/m³]	1000 mg/m³
VLE [ppm]	400 ppm
Notation	SSC Keine Schädigung der Leibesfrucht bei Einhaltung des MAK-Werts B = Biologisches Monitoring
Remark	Messmethoden = INRS + NIOSH
Switzerland - BAT	
BAT	25 mg/l
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Propanol
ACGIH TWA (ppm)	200 ppm
ACGIH STEL (ppm)	400 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2023
USA - ACGIH - Biological Exposure Indices	
Local name	2-PROPANOL
Biological Exposure Indices (BEI)	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns
Regulatory reference	ACGIH 2023

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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

Ethanol (64-17-5)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	1900 mg/m ³
Long-term - systemic effects, dermal	343 mg/kg bw/day
Long-term - systemic effects, inhalation	950 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	950 mg/m ³
Long-term - systemic effects, oral	87 mg/kg bw/day
Long-term - systemic effects, inhalation	114 mg/m ³
Long-term - systemic effects, dermal	206 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	0,96 mg/l
PNEC aqua (marine water)	0,79 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3,6 mg/kg dwt
PNEC sediment (marine water)	2,9 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,63 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0,38
PNEC (STP)	
PNEC sewage treatment plant	580 mg/l
Butanone (78-93-3)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	900 mg/m ³
Long-term - systemic effects, dermal	1161 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	600 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	450 mg/m ³
Long-term - systemic effects, oral	31 mg/kg bw/day
Long-term - systemic effects, inhalation	106 mg/m ³
Long-term - systemic effects, dermal	412 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	55,8 mg/l
PNEC aqua (marine water)	55,8 mg/l

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Butanone (78-93-3)	
PNEC aqua (intermittent, freshwater)	55,8 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	284,7 mg/kg dwt
PNEC sediment (marine water)	284,7 mg/kg dwt
PNEC (Soil)	
PNEC soil	22,5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	709 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

During spraying wear suitable respiratory equipment.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure. Protective goggles. Protective clothing. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection			
Type	Use	Characteristics	Standard
Safety glasses	Droplet	With side shields	EN 166

8.2.2.2. Skin protection

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
protective gloves	Nitrile rubber (NBR)	5 (> 240 minutes)	>0,3		EN 374-2

8.2.2.3. Respiratory protection

Respiratory protection:

Usually not necessary. In case of insufficient ventilation or spraying: Use approved mask with particle filter P2 (EN149). The filters have a limited service life (must be changed). Read the manufacturer's instructions.

Respiratory protection			
Device	Filter type	Condition	Standard
approved mask with particle filter P2	Type P2		EN 149

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Consumer exposure controls:

Avoid contact during pregnancy/while nursing.

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Blue.
Appearance	: Liquid.
Odour	: alcohol odour.
Odour threshold	: Not available
Melting point	: $\approx -112\text{ }^{\circ}\text{C}$
Freezing point	: $\approx -112\text{ }^{\circ}\text{C}$
Boiling point	: $\approx 76\text{ }^{\circ}\text{C}$
Flammability	: Not available
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: $12\text{ }^{\circ}\text{C}$
Auto-ignition temperature	: $\approx 361\text{ }^{\circ}\text{C}$
Decomposition temperature	: Not available
pH	: 5,3 (100 g/L; 20°C)
Viscosity, kinematic	: Not available
Solubility	: Water: 100 %
Log Kow	: Not available
Log Pow	: -0,35
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0,82 kg/l
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

No additional information available

9.2.2. Other safety characteristics

VOC content : $> 745\text{ g/l}$

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating may cause a fire or explosion. Highly flammable liquid and vapour.

10.2. Chemical stability

Combustible liquid.

10.3. Possibility of hazardous reactions

No additional information available

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10.4. Conditions to avoid

All heat sources, including direct sunlight. No flames, no sparks. Eliminate all sources of ignition. Avoid shock and friction.

10.5. Incompatible materials

Bases. Acids. oxidizing agents.

10.6. Hazardous decomposition products

No additional information available

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
Additional information	: Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis Disturbances of consciousness Effects of skin contact may include : redness

Ethanol (64-17-5)

LD50 oral rat	10470 mg/kg bodyweight
LD50 oral	10470 mg/kg bodyweight
LD50 dermal rabbit	> 15800 mg/kg bodyweight
LD50 dermal	15800 mg/kg bodyweight
LC50 Inhalation - Rat	124,7 mg/l air
LC50 Inhalation - Rat (Dust/Mist)	> 99999 mg/l
LC50 Inhalation - Rat (Vapours)	51-124,7

Butanone (78-93-3)

LD50 oral rat	2737 mg/kg
LD50 oral	2737 mg/kg bodyweight
LD50 dermal rabbit	6480 mg/kg
LD50 dermal	6400 mg/kg bodyweight
LC50 Inhalation - Rat	34 mg/l/4h
LC50 Inhalation - Rat [ppm]	11300 ppm/4h
LC50 Inhalation - Rat (Dust/Mist)	> 5000 mg/l

propaan-2-ol; isopropylalcohol; isopropanol (67-63-0)

LD50 oral rat	5840 mg/kg
LD50 oral	4396 mg/kg bodyweight
LD50 dermal	12800 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	46600 mg/l

Skin corrosion/irritation	: Not classified pH: 5,3 (100 g/L; 20°C)
Additional information	: Effects of skin contact may include : redness
Serious eye damage/irritation	: Causes serious eye irritation. pH: 5,3 (100 g/L; 20°C)
Additional information	: Causes serious eye irritation.

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Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Ethanol (64-17-5)

IARC group	1 - Carcinogenic to humans
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propaan-2-ol; isopropylalcohol; isopropanol (67-63-0)

IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified
STOT-single exposure : Not classified

Butanone (78-93-3)

STOT-single exposure	May cause drowsiness or dizziness.
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propaan-2-ol; isopropylalcohol; isopropanol (67-63-0)

STOT-single exposure	May cause drowsiness or dizziness.
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STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Additional information : Disturbances of consciousness

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

Ethanol (64-17-5)

LC50 fish 1	15300 mg/l
EC50 Daphnia 1	12340 mg/l (Daphnia Magna, 48h)
EC50 other aquatic organisms 1	5012 mg/l waterflea
EC50 other aquatic organisms 2	275 mg/l
EC50 72h - Algae [1]	275 mg/l

Butanone (78-93-3)

LC50 fish 1	2993 mg/l
LC50 fish 2	2990 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	308 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	308 mg/l waterflea
EC50 other aquatic organisms 2	1972 mg/l
ErC50 (algae)	1220 mg/l
TLM fish 1	5600 mg/l (96 h; Gambusia affinis)
TLM fish 2	1690 mg/l (96 h; Lepomis macrochirus)
TLM other aquatic organisms 1	> 1000 ppm (96 h)
Threshold limit algae 1	110 mg/l (168 h; Microcystis aeruginosa)

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Butanone (78-93-3)

Threshold limit algae 2	4300 mg/l (192 h; Scenedesmus quadricauda)
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propaan-2-ol; isopropylalcohol; isopropanol (67-63-0)

LC50 fish 1	9640 mg/l
EC50 other aquatic organisms 1	13299 mg/l waterflea
EC50 other aquatic organisms 2	> 1000 mg/l

12.2. Persistence and degradability

Ethanol (64-17-5)

Biochemical oxygen demand (BOD)	0,8 – 0,967 g O ₂ /g substance
Chemical oxygen demand (COD)	1,7 g O ₂ /g substance
ThOD	2,1 g O ₂ /g substance

Butanone (78-93-3)

Persistence and degradability	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
BOD (% of ThOD)	> 0,5 % ThOD (5 days)

12.3. Bioaccumulative potential

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Log Pow	-0,35
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Ethanol (64-17-5)

Log Pow	-0,35
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Butanone (78-93-3)

Log Pow	0,3
Bioaccumulative potential	Low bioaccumulation potential.

propaan-2-ol; isopropylalcohol; isopropanol (67-63-0)

Log Pow	0,05
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12.4. Mobility in soil

Ethanol (64-17-5)

Surface tension	22,31 mN/m
Log Koc	0,2
Ecology - soil	Very mobile in the soils.

Butanone (78-93-3)

Surface tension	0,024 N/m (20 °C)
Log Koc	0,654 – 1,281

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: 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 %

12.7. Other adverse effects

Additional information

: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Discharging into rivers and drains is forbidden. Dispose of in accordance with relevant local regulations.

Additional information

: Flammable vapours may accumulate in the container. Clean up even minor leaks or spills if possible without unnecessary risk.

Ecology - waste materials

: Avoid release to the environment.

European List of Waste (LoW, EC 2000/532)






: 14 06 03* - other solvents and solvent mixtures

H code

: Z

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 1170	UN 1170	UN 1170	UN 1170	UN 1170
14.2. UN proper shipping name				
ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	Ethanol solution	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Transport document description				
UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II, (D/E)	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II	UN 1170 Ethanol solution, 3, II	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II	UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

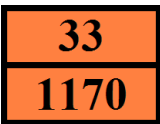
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14.6. Special precautions for user

Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 144, 601
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)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
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
EAC code	: •2Y

Transport by sea

Special provisions (IMDG)	: 144
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Colourless, volatile liquids. Pure ETHANOL: flashpoint 13°C c.c. Explosive limits: 3.3% to 19%. Miscible with water.

Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A58, A180
ERG code (IATA)	: 3L

Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 144, 601
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 144, 601

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Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

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

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(a)	Ethanol ; Butanone	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
3(b)	Ethanol ; Butanone	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
40.	Ethanol ; Butanone	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.

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

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

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

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

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

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

VOC content : > 745 g/l

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
Methylethylketone	Butanone	78-93-3	2914 12 00	Category 3		Annex I

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15.1.2. National regulations

France	
Occupational diseases	
Code	Description
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

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : B(5) - low hazard for aquatic organisms
SZW-list of carcinogenic substances : Ethanol is listed
SZW-list of mutagenic substances : None of the components are listed
NON-exhaustive list of reprotoxic substances - : Ethanol is listed
Breastfeeding
SZW-lijst van reprotoxische stoffen – : Ethanol is listed
Vruchtbaarheid
NON-exhaustive list of reprotoxic substances - : Ethanol is listed
Development

Denmark

MAL code : 2
Class for fire hazard : Class I-2
Danish National Regulations (Additional) : Cleaning products (containing organic solvents) should normally not be used by persons under 18. Permitted However for the employee's own use and in a dilution with water containing not more than 1% of the solvents

Switzerland

Storage class (LK) : LK 3 - Flammable liquids

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

The classification complies with : ATP 18

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.