



Eurol Cleaning Spray

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 29-5-2020 Revision date: 17-12-2020 Supersedes: 24-6-2020 Version: 1.2

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

1.1. Product identifier

Product form : Mixture
Product name : Eurol Cleaning Spray
UFI : 17XY-HKD5-W40J-NJJY
Product code : E600630
Type of product : Cleaner, Detergent
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, professional use, Consumer use
Use of the substance/mixture : Cleaner
Function or use category : Cleaning/washing agents and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Eurol bv.
Energistraat 12
P.O. Box P.O. Box 135
7442 DA Nijverdal - The Netherlands
T +31 548 615165
reach@eurol.com - www.eurol.com

1.4. Emergency telephone number

Emergency number : +31 79 3467 808
EVOFENEDEX

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	

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Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU > 2015: According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Flammable liquids, Category 2

H225

Serious eye damage/eye irritation, Category 2

H319

Full text of H-statements: see section 16

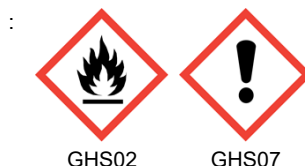
Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



CLP Signal word

: Danger

Hazard statements (CLP)

: H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.

P280 - Wear eye protection, protective gloves.

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

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol; ethyl alcohol substance with national workplace exposure limit(s) (GB, IE)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	≥ 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319
butanone; ethyl methyl ketone substance with national workplace exposure limit(s) (GB, IE, MT); 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: 011-2119457290-43	0,1 – 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Propan-2-ol substance with national workplace exposure limit(s) (GB, IE)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	0,1 – 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
1,7,7-trimethylbicyclo[2.2.1]heptan-2-one substance with national workplace exposure limit(s) (GB)	CAS-No.: 76-22-2 EC-No.: 200-945-0 REACH-no: 01-2119966156-31	< 0,1	Flam. Sol. 2, H228 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 STOT SE 2, H371

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	: Seek medical attention if ill effect develops.
First-aid measures after inhalation	: Take victim to fresh air, in a quiet place, in an half laying position and if necessary take medical advice. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Ensure adequate flushing of eyes by separating eyelids with the fingers. Obtain medical attention if pain, blinking, tears or redness persist.
First-aid measures after ingestion	: Consult a doctor/medical service if you feel unwell. If vomiting occurs spontaneously, keep head below the hips to prevent aspiration. Do not induce vomiting. Rinse mouth.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant hazard under anticipated conditions of normal use. Contact during a long period may cause light irritation.
Symptoms/effects after eye contact	: Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Symptoms/effects after ingestion	: Bad taste. Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.
Symptoms/effects upon intravenous administration	: Unknown.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

- | | |
|--------------------------------|--|
| Suitable extinguishing media | : carbon dioxide (CO ₂), dry chemical powder, foam. Water fog. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. Use of heavy stream of water may spread fire. |

5.2. Special hazards arising from the substance or mixture

- | | |
|------------------|--|
| Fire hazard | : Combustion generates: CO, CO ₂ . |
| Explosion hazard | : Not expected to be a fire/explosion hazard under normal conditions of use. |

5.3. Advice for firefighters

- | | |
|--------------------------------|---|
| Precautionary measures fire | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. |
| Protection during firefighting | : Use self-contained breathing apparatus and chemically protective clothing. |
| Other information | : Prevent fire fighting water from entering the environment. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- | | |
|------------------|--|
| General measures | : Spill area may be slippery. Prevent soil and water pollution. Prevent entry to sewers and public waters. |
|------------------|--|

6.1.1. For non-emergency personnel

- | | |
|----------------------|---------------------------------------|
| Protective equipment | : Use protective clothing. |
| Emergency procedures | : No specific measures are necessary. |

6.1.2. For emergency responders

- | | |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : No specific measures are necessary. |

6.2. Environmental precautions

Dike for recovery or absorb with appropriate material. Notify authorities if product enters sewers or public waters. Prevent soil and water pollution. Prevent liquid from entering sewers, watercourses, underground or low areas. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.3. Methods and material for containment and cleaning up

- | | |
|-------------------------|---|
| For containment | : Large quantities: Contain large spillage with sand or earth. |
| Methods for cleaning up | : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Take up large spills with pump or vacuum and finish with dry chemical absorbent. |
| Other information | : Use suitable disposal containers. Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations. |

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- | | |
|-----------------------------------|--|
| Additional hazards when processed | : None under normal use. |
| Precautions for safe handling | : May be dangerously slippery if spilled. Do not eat, drink or smoke during use. Remove contaminated clothing and shoes. |

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Hygiene measures	: Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
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7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Keep container tightly closed and in well ventilated place.
Storage conditions	: Keep only in original container.
Incompatible products	: Reacts vigorously with strong oxidizers and acids.
Maximum storage period	: 3 year
Storage temperature	: ≤ 40 °C
Information on mixed storage	: Keep away from : oxidizing materials. Strong acids.
Storage area	: Store at ambient temperature.
Special rules on packaging	: Keep container tightly closed and dry.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

ethanol; ethyl alcohol (64-17-5)	
Ireland - Occupational Exposure Limits	
Local name	Ethanol
OEL (15 min ref) (ppm)	1000 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Ethanol
WEL TWA (mg/m³)	1920 mg/m³
WEL TWA (ppm)	1000 ppm
WEL STEL (mg/m³)	5760 mg/m³ (calculated)
WEL STEL (OEL STEL) [ppm]	3000 ppm (calculated)
butanone; ethyl methyl ketone (78-93-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Butanone
IOELV TWA (mg/m³)	600 mg/m³
IOELV TWA (ppm)	200 ppm
IOELV STEL (mg/m³)	900 mg/m³
IOELV STEL (ppm)	300 ppm
Ireland - Occupational Exposure Limits	
Local name	Methyl ethyl ketone (MEK)
OEL (8 hours ref) (mg/m³)	600 mg/m³
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (mg/m³)	900 mg/m³
OEL (15 min ref) (ppm)	300 ppm

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butanone; ethyl methyl ketone (78-93-3)	
Notes (IE)	Sk, IOELV
Malta - Occupational Exposure Limits	
Local name	Butanone
OEL TWA (mg/m³)	600 mg/m³
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m³)	900 mg/m³
OEL STEL (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), BMGV (Biological monitoring guidance values are listed in Table 2)
Propan-2-ol (67-63-0)	
Ireland - Occupational Exposure Limits	
Local name	Isopropyl alcohol
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (ppm)	400 ppm
Notes (IE)	Sk
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
1,7,7-trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (mg/m³)	13 mg/m³
WEL TWA (ppm)	2 ppm
WEL STEL (mg/m³)	19 mg/m³
WEL STEL (OEL STEL) [ppm]	3 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Large quantities: Contain large spillage with sand or earth.

8.2.2. Personal protection equipment

Personal protective equipment:

Not required for normal conditions of use.

8.2.2.1. Eye and face protection

Eye protection:

Eye protection should only be necessary where liquid could be splashed or sprayed

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use. Avoid repeated or prolonged skin contact

Hand protection:

Not required for normal conditions of use

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

See Heading 12. See Heading 6.

Other information:

Do not put the product-soaked rags into the pockets of working clothes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke during use. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: liquid
Appearance	: liquid.
Colour	: Colourless.
Odour	: alcohol odour.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 70 °C
Flash point	: < 23 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour Pressure 20°C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ≈ 0,8503 kg/l
Solubility	: Completely miscible with water.
Log Pow	: No data available
Viscosity, kinematic	: No data available

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Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

Other properties	: Gas/vapour heavier than air at 20°C.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid

Moisture. Overheating.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

CO, CO₂.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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)	: Not classified (Based on available data, the classification criteria are not met)

ethanol; ethyl alcohol (64-17-5)	
LD50 oral rat	7060 – 10470 mg/kg
LD50 dermal rabbit	> 15800 mg/kg
LC50 Inhalation - Rat	51 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	124,7 mg/l/4h
butanone; ethyl methyl ketone (78-93-3)	
LD50 oral rat	2737 mg/kg
LD50 dermal rabbit	6480 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	34 mg/l/4h
Propan-2-ol (67-63-0)	
LD50 oral rat	> 2000 mg/kg According to literature
LD50 dermal rabbit	> 2000 mg/kg According to literature
LC50 Inhalation - Rat	> 20 mg/l 8h; According to literature
LC50 Inhalation - Rat [ppm]	16000 (8 h)

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1,7,7-trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)

LD50 oral	1310 mg/kg bodyweight
LC50 Inhalation - Rat	0,5 mg/l air

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

butanone; ethyl methyl ketone (78-93-3)

STOT-single exposure	May cause drowsiness or dizziness.
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Propan-2-ol (67-63-0)

STOT-single exposure	May cause drowsiness or dizziness.
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1,7,7-trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)

STOT-single exposure	May cause damage to organs (lungs) (Inhalation).
STOT-repeated exposure	: Not classified

butanone; ethyl methyl ketone (78-93-3)

NOAEC (inhalation, rat, gas, 90 days)	2500 ppmv/6h/day
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Aspiration hazard	: Not classified
Other information	: Toxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the toxicology of similar products, Likely route of exposure: ingestion, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

ethanol; ethyl alcohol (64-17-5)

LC50 fish 1	12 – 16 ml/l (Oncorhynchus mykiss [static])
LC50 fish 2	> 100 mg/l (Pimephales promelas [static])
EC50 Daphnia 1	9268 – 14221 mg/l (Daphnia magna)
EC50 Daphnia 2	10800 mg/l (24 h; Daphnia magna)
Threshold limit algae 1	1450 mg/l (192 h; Microcystis aeruginosa)
Threshold limit algae 2	5000 mg/l (168 h; Scenedesmus quadricauda)

butanone; ethyl methyl ketone (78-93-3)

LC50 fish 1	3130 – 3320 mg/l (96 h ; Pimephales promelas [flow-trough])
EC50 Daphnia 1	> 520 mg/l (48 h ; Daphnia magna)
EC50 Daphnia 2	5091 mg/l (48 h ; Daphnia magna)

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butanone; ethyl methyl ketone (78-93-3)	
EC50 72h - Algae [1]	1972 mg/l Pseudokirchneriella subcapitata
Propan-2-ol (67-63-0)	
LC50 fish 1	9640 mg/l (96h; Pimephales promelas [flow-trough])
LC50 fish 2	11130 mg/l (96h; Pimephales promelas [static])
EC50 Daphnia 1	13299 mg/l (48h; Daphnia magna)
EC50 other aquatic organisms 1	> 1000 mg/l (96h; Desmodesmus subspicatus)
EC50 other aquatic organisms 2	> 1000 mg/l (72h; Desmodesmus subspicatus)
EC50 72h - Algae [1]	> 100 mg/l Scenedesmus subspicatus
EC50 96h - Algae [1]	> 1000 mg/l Desmodesmus subspicatus
1,7,7-trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)	
LC50 fish 1	110 mg/l
EC50 96h - Algae [1]	6951 mg/l

12.2. Persistence and degradability

Eurol Cleaning Spray	
Persistence and degradability	Product is biodegradable. The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
ethanol; ethyl alcohol (64-17-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.
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
BOD (% of ThOD)	0,43
butanone; ethyl methyl ketone (78-93-3)	
Biodegradation	98 % 28 d
Propan-2-ol (67-63-0)	
Biodegradation	95 % (21 d; OECD 301E)
1,7,7-trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)	
Persistence and degradability	Readily biodegradable in water.
ThOD	2,8 g O ₂ /g substance

12.3. Bioaccumulative potential

Eurol Cleaning Spray	
Bioaccumulative potential	This product is not expected to bioaccumulate through food chains in the environment.
ethanol; ethyl alcohol (64-17-5)	
Log Pow	-0,31

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butanone; ethyl methyl ketone (78-93-3)	
Log Pow	≤ 4
Propan-2-ol (67-63-0)	
Bioconcentration factor (BCF REACH)	< 100
Log Pow	< 3 Slightly bioaccumulative
1,7,7-trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)	
Log Pow	2,414

12.4. Mobility in soil

Eurol Cleaning Spray	
Ecology - soil	Spillages may penetrate the soil causing ground water contamination.
ethanol; ethyl alcohol (64-17-5)	
Surface tension	0,022 N/m
Ecology - soil	Spillages may penetrate the soil causing ground water contamination. Completely miscible with water.
1,7,7-trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)	
Log Koc	2,068

12.5. Results of PBT and vPvB assessment

Component	
1,7,7-trimethylbicyclo[2.2.1]heptan-2-one (76-22-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not discharge into drains or the environment.
European List of Waste (LoW) code	: 07 06 01* - aqueous washing liquids and mother liquors

SECTION 14: Transport information






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

ADR	IMDG	IATA	ADN	RID
14.1. UN 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)

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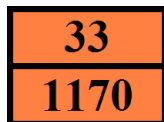
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN	RID
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				

14.6. Special precautions for user

Overland transport

Classification code (UN) : F1
Special provisions (ADR) : 144, 601
Limited quantities (ADR 2011) : 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 : •2YE

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
Flash point (IMDG) : 20°C

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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
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
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. Transport in bulk according to Annex II of Marpol and the IBC Code

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

Full text of H- and EUH-statements

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Sol. 2	Flammable solids, Category 2
STOT SE 2	Specific target organ toxicity — Single exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.

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.