

# Alcohol spray

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 4-6-2020 Revision date: 4-6-2020 Version: 0.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Alcohol spray  
Product code : 6300.3  
Type of product : Detergent  
Vaporizer : Spray  
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 : Professional use, Consumer use  
Use of the substance/mixture : The data given here is based on the product properties as mentioned in section 1.1. and is provided on the assumption, that the product will be used in the manner and for the purposes for which the manufacturer indicates.  
Use of the substance/mixture : Cleaner  
Function or use category : Cleaning/washing agents and additives

Title	Use descriptors
Professional uses; (Trigger) spraying (Association ref code: AISE_SUMI_PW_11_1_G)	SU22, PC35, PROC11, ERC8a, AISE SPERC 8a.1.a.v2
Consumer use of washing and cleaning products	SU21, PC35, ERC8a

Full text of use descriptors: see section 16

##### 1.2.2. Uses advised against

No additional information available

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

Helichem B.V.  
Kozakkenberg 5  
NL-5951 DL Belfeld - Nederland  
T +31 (0) 77 3590999 - F +31 (0)77 3590998  
[info@helichem.nl](mailto:info@helichem.nl) - [www.helichem.nl](http://www.helichem.nl)

#### 1.4. Emergency telephone number

Emergency number : See Section 1.3; Only during office hours

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900	
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	

### 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 statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes serious eye irritation.

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### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: 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/sparks/open flames/hot surfaces. — No smoking.  
P261 - Avoid breathing spray.  
P280 - Wear eye protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P403+P235 - Store in a well-ventilated place. Keep cool.

Intended for general public

Child-resistant fastening

: Not applicable

Tactile warning

: Applicable

### 2.3. Other hazards

Other hazards not contributing to the classification

: None under normal conditions. The information in this section applies to the undiluted product.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(INCI: ALCOHOL)	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43	≥ 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319
2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) 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	5 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butanon (Ethyl methyl ketone) (INCI: MEK) substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB, IE, MT)	(CAS-No.) 78-93-3 (EC-No.) 201-159-0 (EC Index-No.) 606-002-00-3 (REACH-no) 01-2119457290-43	0,1 – 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
(INCI: CAMPHOR) substance with national workplace exposure limit(s) (GB, IE)	(CAS-No.) 76-22-2 (EC-No.) 200-945-0 (REACH-no) 01-2119966156-31	< 0,1	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapour), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Allow affected person to breathe fresh air. Allow the victim to rest.

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First-aid measures after skin contact	: Rinse skin with water/shower.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation	: Inhalation unlikely. Giddiness. Soar throat. Cough. Difficulty in breathing.
Symptoms/effects after skin contact	: May cause slight irritation to the skin. Redness.
Symptoms/effects after eye contact	: Causes serious eye irritation. Tears. Blurred vision. Redness.
Symptoms/effects after ingestion	: May cause a light irritation of the linings of the mouth, throat, and gastrointestinal tract. Dizziness, headaches, nausea. Abdominal pain. Diarrhea. Vomiting.

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

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapour.
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### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Material spilled on hard surface can present a serious slipping/falling hazard.
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#### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel. No open flames, no sparks, and no smoking.
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#### 6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

### 6.2. Environmental precautions

Do not flush into surface water. Avoid release to the environment.

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

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Dispose of in accordance with relevant local regulations. Wash away remainder with plenty of water.
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### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Normal precautions for the use of chemicals and cleaners should be taken care of. See information supplied by the manufacturer. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Do not eat, drink or smoke when using this product.

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

Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed. Protect from freezing.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### (INCI: ALCOHOL) (64-17-5)

##### Ireland - Occupational Exposure Limits

Local name	Ethanol
OEL (15 min ref) (ppm)	1000 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

##### United Kingdom - Occupational Exposure Limits

Local name	Ethanol
WEL TWA (mg/m <sup>3</sup> )	1920 mg/m <sup>3</sup>
WEL TWA (ppm)	1000 ppm
Regulatory reference	EH40. HSE

##### Butanon (Ethyl methyl ketone) (INCI: MEK) (78-93-3)

##### EU - Occupational Exposure Limits

Local name	Butanone
IOELV TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
IOELV TWA (ppm)	200 ppm
IOELV STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
IOELV STEL (ppm)	300 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

##### Ireland - Occupational Exposure Limits

Local name	Methyl ethyl ketone (MEK)
OEL (8 hours ref) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	200 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	300 ppm
Notes (IE)	Sk, IOELV
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

##### Malta - Occupational Exposure Limits

Local name	Butanone
OEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
OEL TWA (ppm)	200 ppm
OEL STEL (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
OEL STEL (ppm)	300 ppm
Regulatory reference	S.L.424.24

##### United Kingdom - Occupational Exposure Limits

Local name	Butan-2-one (methyl ethyl ketone)
WEL TWA (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
WEL TWA (ppm)	200 ppm
WEL STEL (mg/m <sup>3</sup> )	899 mg/m <sup>3</sup>
WEL 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)
Regulatory reference	EH40. HSE

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### 2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (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
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

#### United Kingdom - Occupational Exposure Limits

Local name	Propan-2-ol
WEL TWA (mg/m <sup>3</sup> )	999 mg/m <sup>3</sup>
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m <sup>3</sup> )	1250 mg/m <sup>3</sup>
WEL STEL (ppm)	500 ppm
Regulatory reference	EH40. HSE

### (INCI: CAMPHOR) (76-22-2)

#### Ireland - Occupational Exposure Limits

Local name	Bornan-2-one
OEL (8 hours ref) (mg/m <sup>3</sup> )	12 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	2 ppm
OEL (15 min ref) (mg/m <sup>3</sup> )	18 mg/m <sup>3</sup>
OEL (15 min ref) (ppm)	3 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

#### United Kingdom - Occupational Exposure Limits

Local name	Bornan-2-one
WEL TWA (mg/m <sup>3</sup> )	13 mg/m <sup>3</sup>
WEL TWA (ppm)	2 ppm
WEL STEL (mg/m <sup>3</sup> )	19 mg/m <sup>3</sup>
WEL STEL (ppm)	3 ppm
Regulatory reference	EH40. HSE

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#### DNEL/DMEL (additional information)

See http	<a href="http://www.dguv.de/ifa/de/gestis/limit_values/index.jsp">//www.dguv.de/ifa/de/gestis/limit_values/index.jsp</a> : Information on ingredients.
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### (INCI: ALCOHOL) (64-17-5)

#### DNEL/DMEL (Workers)

Acute - local effects, inhalation	1900 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	950 mg/m <sup>3</sup>

#### DNEL/DMEL (General population)

Acute - local effects, inhalation	950 mg/m <sup>3</sup>
Long-term - systemic effects, oral	87 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	114 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	206 mg/kg bodyweight/day

#### PNEC (Water)

PNEC aqua (freshwater)	0,96 mg/l
PNEC aqua (marine water)	0,79 mg/l

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### (INCI: ALCOHOL) (64-17-5)

#### PNEC (Sediment)

PNEC sediment (freshwater)	3,6 mg/kg dwt
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#### PNEC (Soil)

PNEC soil	0,63 mg/kg dwt
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### 8.2. Exposure controls

#### Personal protective equipment:

Avoid all unnecessary exposure. Eye protection. Safety glasses.

#### Eye protection:

No special eye protection equipment recommended under normal conditions of use. Eye protection should only be necessary where liquid could be splashed or sprayed. Chemical goggles or face shield. Standard. EN 166

#### Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

#### Respiratory protection:

No special protection required where adequate ventilation is maintained

#### Personal protective equipment symbol(s):



#### Other information:

Do not eat, drink or smoke when using this product. The information in this section applies to the undiluted product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless.
Odour	: perfumed.
Odour threshold	: No data available
pH	: 7 – 7,5 (20°C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 78 – 100 °C
Flash point	: 21 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0,87 – 0,89 g/cm <sup>3</sup> (20°C)
Solubility	: Material highly soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: < 10 mPa·s (Brookfieldspindel Lv2 50 rpm, 20°C)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions. Flammable liquid and vapour.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Not established.

#### 10.6. Hazardous decomposition products

May release flammable gases. On incomplete combustion releases : Carbon monoxide. Thermal decomposition generates : Carbon oxides (CO, CO<sub>2</sub>). fume.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

(INCI: ALCOHOL) (64-17-5)	
LD50 oral rat	10470 – 13600 mg/kg
LD50 oral	10470 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	15800 mg/kg bodyweight
LC50 inhalation rat (mg/l)	51 – 124,7 mg/l/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 99999 mg/l/4h

Butanon (Ethyl methyl ketone) (INCI: MEK) (78-93-3)	
LD50 oral rat	2193 – 3460 mg/kg (OECD 423)
LD50 oral	2737 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg (OECD 402)
LD50 dermal	6400 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5000 mg/l/4h

2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)	
LD50 oral rat	4750 – 5840 mg/kg
LD50 oral	4396 mg/kg bodyweight
LD50 dermal rabbit	> 2000 (≤ 13900) mg/kg
LD50 dermal	12800 mg/kg bodyweight
LC50 inhalation rat (mg/l)	20 – 72,6 mg/l
LC50 inhalation rat (Dust/Mist - mg/l/4h)	46600 mg/l/4h
LC50 inhalation rat (Vapours - mg/l/4h)	30 mg/l/4h

(INCI: CAMPHOR) (76-22-2)	
LD50 oral	1310 mg/kg
Skin corrosion/irritation	: Not classified pH: 7 – 7,5 (20°C)
Additional information	: Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Causes serious eye irritation. pH: 7 – 7,5 (20°C)
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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Vaporizer	Spray
Potential adverse human health effects and symptoms	: With the product as such no toxicological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified as mentioned in section 2. Components that are toxic are mentioned in section 3.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: With the product as such no ecological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified concerning the environment as mentioned in section 2. Components that are dangerous to the environment are mentioned in section 3.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

### (INCI: ALCOHOL) (64-17-5)

LC50 fish 1	14200 mg/l
LC50 fish 2	> 100 mg/l (48h, <i>Leuciscus idus</i> )
EC50 Daphnia 1	12340 mg/l (48h)
EC50 other aquatic organisms 1	5012 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	275 mg/l IC50 algea (72 h) mg/l
EC50 72h algae (1)	> 100 mg/l (72h, <i>Selenastrum capricornutum</i> )

### Butanon (Ethyl methyl ketone) (INCI: MEK) (78-93-3)

LC50 fish 1	2993 mg/l
LC50 fish 2	2993 (96h, <i>Pimephales promelas</i> , OECD 203)
EC50 other aquatic organisms 1	308 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	1972 mg/l IC50 algea (72 h) mg/l
EC50 72h algae (1)	1972 mg/l ( <i>Pseudokirchneriella subcapitata</i> , OECD 201)

### 2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)

LC50 fish 1	4200 – 9640 mg/l (96h, <i>Pimephales promelas</i> )
LC50 fish 2	> 100 mg/l ( <i>Leuciscus idus</i> )
EC50 Daphnia 1	> 1000 mg/l (24h)
EC50 Daphnia 2	9714 mg/l (24h, OECD 202)
EC50 other aquatic organisms 1	> 100 mg/l ( <i>Daphnia magna</i> , 48h)
EC50 other aquatic organisms 2	> 1000 mg/l IC50 algea (72 h) mg/l
EC50 72h algae (1)	> 1000 mg/l ( <i>Scenedesmus subspicatus</i> )
EC50 72h algae (2)	> 100 mg/l ( <i>Scenedesmus subspicatus</i> )



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LOEC (acute)	1000 mg/l (Algae, 8d)
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### (INCI: CAMPHOR) (76-22-2)

LC50 fish 1	17 mg/l (96h)
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### 12.2. Persistence and degradability

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Persistence and degradability	Not established. 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.
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### (INCI: CAMPHOR) (76-22-2)

Biodegradation	77 % (28d, OECD 301F)
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### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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### (INCI: ALCOHOL) (64-17-5)

Partition coefficient n-octanol/water (Log Kow)	-0,3
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### Butanon (Ethyl methyl ketone) (INCI: MEK) (78-93-3)

Partition coefficient n-octanol/water (Log Pow)	0,3
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Partition coefficient n-octanol/water (Log Kow)	0,29
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### 2-Propanol (isopropylalcohol) (INCI: ISOPROPYL ALCOHOL) (67-63-0)

Partition coefficient n-octanol/water (Log Pow)	0,05
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Partition coefficient n-octanol/water (Log Kow)	0,05
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### (INCI: CAMPHOR) (76-22-2)

Partition coefficient n-octanol/water (Log Pow)	2,38
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Partition coefficient n-octanol/water (Log Kow)	3,04
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: This material and its container must be disposed of in a safe way, and as per local legislation. Product as it is : Dispose as hazardous waste. Empty containers can be dumped after cleaning according to local legislation. Recycling is preferred to disposal or incineration. Empty the packaging completely prior to disposal. Flush residue with large amounts of water.
Additional information	: Flammable vapours may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 07 04 00 - wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides

## SECTION 14: Transport information






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

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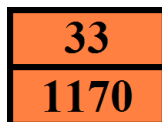
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ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 1170	UN 1170	UN 1170	UN 1170	UN 1170
<b>14.2. UN proper shipping name</b>				
ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	Ethanol solution	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>Transport document description</b>				
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
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
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 (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 : •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

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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.

MFAG-No : 153

### 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

Allergenic fragrances > 0,01%:

Citral (INCI: CITRAL)  
(R)-p-mentha-1,8-diene (D-Limonene) (INCI: D-LIMONENE)

Detergent Regulation (648/2004/EC): Labelling of contents:

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Component	%
perfumes	
CITRAL	
D-LIMONENE	

### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Raw materials information section 3.

See <http://esis.jrc.ec.europa.eu/index.php?PGM=dat> : Information on ingredients.

Health hazards

See Section 2 & 3 & 11.

Physical hazards

See Section 2 & 10.

Environmental hazards

See Section 2 & 3 & 12.

## SECTION 16: Other information

### Abbreviations and acronyms:

	ABM: Algemene Beoordelings Methodiek (NL) / ADR: Accord Européen relatif au transport international des marchandises dangereuses par route) / ALG: Allergen / AQTX: Aquatic Toxicity / Atm: Atmosphere (unit of pressure) / bw: bodyweight / C: Ceiling / CAR:\Carcinogenic Effects / CAS No: Chemical Abstracts Service Number (see ACS – American Chemical Society) / CMRs: Carcinogenic, Mutagenic or toxic to Reproduction (substances) / CSR: Chemical Safety Report / Cc (cm3): Cubic Centimeter / DNEL: Derived No-Effect Level / EC50: half maximal effective concentration / ED50: Effective Dose 50 / ET50: Exposure Time 50 / I.V.: Intravenous / Kg: Kilogram / LC: Lethal Concentration / LC50: Median Lethal Concentration / LCLo: Lowest Lethal Airborne Concentration Tested (see also LC50, LD50) / LD: Lethal Dose / LD50: Median Lethal Dose LDLo: Lowest Lethal Dose Tested (see also LC50, LD50) / MAC: Maximum Allowable Concentration / MAK: Maximale Arbeitsplatz-Konzentration (Germany, Maximum Workplace Concentration, see OEL) / MSDS: Material Safety Data Sheet / NOAEL: No Observed Adverse Effect Level / NOEL: No Observable Effect Level / OEL: Occupational Exposure Limits / PBTs: Persistent, Bioaccumulative and Toxic substances / PEC: Predicted Environmental Concentration / PNEC: Predicted No-Effect Concentration / REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances / STEL: Short-Term Exposure Limit / STEV: Short-Term Exposure Value / STP: Sewage Treatment Plant TLM: Threshold Limit, Median / TLV-C: Threshold Limit Value-Ceiling / TLV@: Threshold Limit Value / TWA: Time-Weighted Average / WGK: Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) / g/gms: Grams / kJ/mol: Kilojoules per mole / kPa: KiloPascal (unit of pressure) / m3: Cubic Meter / mg: Milligram / ml: Milliliter / ml Hg: Milliliters of Mercury / n.o.s.: Not Otherwise Specified / nm: nanometer / ppb: Parts Per Billion / pph: parts per hundred (= percent) / ppm: Parts Per Million / ppt: parts per trillion / vPvBs: Very Persistent and Very Bioaccumulative substances
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
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
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

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NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None. DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
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. Sol. 2	Flammable solids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, 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.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.
H411	Toxic to aquatic life with long lasting effects.

Full text of use descriptors	
AISE SPERC 8a.1.a.v2	Wide Dispersive Use in 'Down the Drain' cleaning and maintenance products (Consumers and Professionals)
ERC8a	Wide dispersive indoor use of processing aids in open systems

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PC35	Washing and cleaning products (including solvent based products)
PROC11	Non-industrial spraying
SU21	Consumer uses: Private households (= general public = consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SDS EU (REACH Annex II)

*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.*