

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Revision date: 23-Jan-2024  
Print Date: 24-Apr-2024

Revision Number: 1

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

### 1.1. Product identifier

Product Name: **Kluthe Brennspritus**  
Article number: 069010330000  
UFI: AGDH-EVQC-MM0J-6JE9

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

Product categories [PC]: PC9a - Coatings and paints, thinners, paint removers  
PC 0.56 - Solvent  
PC35 - Washing and cleaning products (including solvent based products)

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

Supplier: conti coatings GmbH & Co. KG  
Feldstrasse 55  
D - 46149 Oberhausen  
Telefon: +49 208/ 9948-0  
Telefax: +49 208/ 650625  
www.conticoatings.com

E-mail address: sds.ob@conticoatings.com

### 1.4. Emergency telephone number

Emergency Telephone: CHEMTREC (24h, 7/365; CCN: 1012799):  
+44 20 3885 0382; 0800 1817059

Emergency Telephone - §45 - (EC)1272/2008	
Austria	+43 1 406 43 43 (Giftinformationszentrale)
Bulgaria	+359 2 9154 213 (Pirogov)
Italy	Centro Antiveleni di Milano: 02.66101029; Centro Antiveleni di Roma: 06.3054343; Centro Antiveleni di Roma: 06.49978000; Centro Antiveleni di Roma: 06.68593726; Centro Antiveleni di Pavia: 0382.24444; Centro Antiveleni di Firenze: 055.7947819; Centro Antiveleni di Bergamo: 800.883300; Centro Antiveleni di Foggia: 0881.732326; Centro Antiveleni di Napoli: 081.7472870; Centro Antiveleni di Verona: 800.011.858
Slovakia	+421 2 5477 4166 (NTIC)
Hungary	+36 80 201 199; +36 1 476 6464 (ETTSZ)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Flammable liquids	Category 2 - (H225)
Serious eye damage/eye irritation	Category 2 - (H319)

### 2.2. Label elements

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**Signal word: Danger**

## Hazard statements:

H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

## Precautionary Statements - EU (§28, 1272/2008):

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P264 - Wash face, hands and any exposed skin thoroughly after handling

P403 + P235 - Store in a well-ventilated place. Keep cool

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

P370 + P378 - In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish

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

## Additional information:

This product requires tactile warnings if supplied to the general public.

## 2.3. Other hazards

No information available.

**PBT & vPvB:** This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

alcohol

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	CAS No	EC No (EU Index No)	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Ethyl alcohol	64-17-5	200-578-6 (603-002-00-5)	01-2119457610-43	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)	75 - < 100
Methyl ethyl ketone	78-93-3	201-159-0 (606-002-00-3)	01-2119457290-43	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336)	1 - < 3

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				(EUH066)	
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Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Ethyl alcohol 64-17-5	Eye Irrit. 2 :: C $\geq$ 50%			

## Acute Toxicity Estimate:

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Ethyl alcohol 64-17-5	10470	2002	116.9	51	No data available
Methyl ethyl ketone 78-93-3	2194	5002	No data available	34	No data available

This product does not contain candidate substances of very high concern at a concentration  $\geq$ 0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

**Full text of H- and EUH-phrases: see section 16**

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice:	Show this safety data sheet to the doctor in attendance.
Inhalation:	Remove to fresh air.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion:	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Self-protection of the first aider:	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

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

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**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

**Effects of Exposure** No information available.

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

Note to physicians: Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

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

Specific hazards arising from the chemical: Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### 5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

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

Personal precautions: Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

Other information: Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

For emergency responders: Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Environmental precautions: Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

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Methods for containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up: Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4. Reference to other sections

Reference to other sections: See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling



Advice on safe handling: Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

General hygiene considerations: Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

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

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

### 7.3. Specific end use(s)

Other information: No information available.

## SECTION 8: Exposure controls/personal protection

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## 8.1. Control parameters

Exposure Limits:

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Ethyl alcohol 64-17-5		TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL 2000 ppm STEL 3800 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1907 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> STEL: 300 ppm STEL: 900 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 295 mg/m <sup>3</sup> STEL 200 ppm STEL 590 mg/m <sup>3</sup> H*	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> STEL: 300 ppm STEL: 900 mg/m <sup>3</sup>	STEL: 885 mg/m <sup>3</sup> TWA: 590 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> STEL: 300 ppm STEL: 900 mg/m <sup>3</sup>
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ethyl alcohol 64-17-5		TWA: 1000 mg/m <sup>3</sup> Ceiling: 3000 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1000 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 1300 ppm STEL: 2500 mg/m <sup>3</sup>
Methyl ethyl ketone 78-93-3	STEL: 300 ppm STEL: 900 mg/m <sup>3</sup> TWA: 200 ppm TWA: 600 mg/m <sup>3</sup>	TWA: 600 mg/m <sup>3</sup> Ceiling: 900 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 145 mg/m <sup>3</sup> H*	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> STEL: 300 ppm STEL: 900 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 60 mg/m <sup>3</sup> STEL: 100 ppm STEL: 300 mg/m <sup>3</sup> iho*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Ethyl alcohol 64-17-5	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 5000 ppm STEL: 9500 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 380 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 380 mg/m <sup>3</sup> Peak: 800 ppm Peak: 1520 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup> STEL: 3800 mg/m <sup>3</sup>
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> STEL: 300 ppm STEL: 900 mg/m <sup>3</sup> *	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> H*	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> Peak: 200 ppm Peak: 600 mg/m <sup>3</sup> *	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> STEL: 300 ppm STEL: 900 mg/m <sup>3</sup>	TWA: 600 mg/m <sup>3</sup> STEL: 900 mg/m <sup>3</sup> b*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Ethyl alcohol 64-17-5	STEL: 1000 ppm		STEL: 1000 ppm STEL: 1884 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 1000 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 1900 mg/m <sup>3</sup>
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> STEL: 300 ppm STEL: 900 mg/m <sup>3</sup> Sk*	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> STEL: 300 ppm STEL: 900 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> STEL: 300 ppm STEL: 885 mg/m <sup>3</sup>	TWA: 67 ppm TWA: 200 mg/m <sup>3</sup> STEL: 300 ppm STEL: 900 mg/m <sup>3</sup>	
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Ethyl alcohol 64-17-5			TWA: 260 mg/m <sup>3</sup> STEL: 1900 mg/m <sup>3</sup> H*	TWA: 500 ppm TWA: 950 mg/m <sup>3</sup> STEL: 625 ppm STEL: 1187.5 mg/m <sup>3</sup>	TWA: 1900 mg/m <sup>3</sup>
Methyl ethyl ketone 78-93-3	STEL: 300 ppm STEL: 900 mg/m <sup>3</sup> TWA: 200 ppm TWA: 600 mg/m <sup>3</sup>	STEL: 300 ppm STEL: 900 mg/m <sup>3</sup> TWA: 200 ppm TWA: 600 mg/m <sup>3</sup>	TWA: 590 mg/m <sup>3</sup> STEL: 900 mg/m <sup>3</sup> H*	TWA: 75 ppm TWA: 220 mg/m <sup>3</sup> STEL: 112.5 ppm STEL: 275 mg/m <sup>3</sup>	STEL: 900 mg/m <sup>3</sup> TWA: 450 mg/m <sup>3</sup> skóra*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> STEL: 5000 ppm STEL: 9500 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 960 mg/m <sup>3</sup> Ceiling: 1920 mg/m <sup>3</sup>	TWA: 960 mg/m <sup>3</sup> TWA: 500 ppm STEL: 1000 ppm STEL: 1920 mg/m <sup>3</sup>	STEL: 1000 ppm STEL: 1910 mg/m <sup>3</sup>
Methyl ethyl ketone 78-93-3	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup>

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	STEL: 300 ppm STEL: 900 mg/m <sup>3</sup>	STEL: 300 ppm STEL: 900 mg/m <sup>3</sup>	Ceiling: 900 mg/m <sup>3</sup>	STEL: 300 ppm STEL: 900 mg/m <sup>3</sup> K*	STEL: 300 ppm STEL: 900 mg/m <sup>3</sup>
Chemical name	Sweden	Switzerland	United Kingdom	Russia	Turkey
Ethyl alcohol 64-17-5	NGV: 500 ppm NGV: 1000 mg/m <sup>3</sup> Vägledande KGV: 1000 ppm Vägledande KGV: 1900 mg/m <sup>3</sup>	TWA: 500 ppm TWA: 960 mg/m <sup>3</sup> STEL: 1000 ppm STEL: 1920 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup> STEL: 3000 ppm STEL: 5760 mg/m <sup>3</sup>	TWA: 1000 mg/m <sup>3</sup> MAC: 2000 mg/m <sup>3</sup>	
Methyl ethyl ketone 78-93-3	NGV: 50 ppm NGV: 150 mg/m <sup>3</sup> Bindande KGV: 300 ppm Bindande KGV: 900 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> STEL: 200 ppm STEL: 590 mg/m <sup>3</sup> H*	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> STEL: 300 ppm STEL: 899 mg/m <sup>3</sup> Sk*	TWA: 200 mg/m <sup>3</sup> MAC: 400 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> STEL: 300 ppm STEL: 900 mg/m <sup>3</sup>

Biological occupational exposure limits:

Chemical name	European Union	Germany DFG	Netherlands	Spain	United Kingdom	Hungary
Methyl ethyl ketone 78-93-3	-	2 mg/L (urine - 2-Butanone end of shift) 2 mg/L - BAT (end of exposure or end of shift) urine		2 mg/L - urine (Methyl ethyl ketone) - end of shift	70 µmol/L - urine (Butan-2-one) - post shift	

Chemical name	France	Italy MDLPS	Portugal	Finland	Denmark	Czech Republic
Methyl ethyl ketone 78-93-3	2 mg/L - urine (Methylethylketon e) - end of shift	-	-			

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Methyl ethyl ketone 78-93-3	-	2 mg/L - urine (2-Butanone) - end of shift, before subsequent shift or 16 hour 27.7 µmol/L - urine (2-Butanone) - end of shift, before subsequent shift or 16 hour	-	-	70 µmol/L (urine - Butan-2-one post shift)	

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Ethyl alcohol	950 mg/m <sup>3</sup>			1900 mg/m <sup>3</sup>
Methyl ethyl ketone	600 mg/m <sup>3</sup>			

Worker - dermal:

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Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Ethyl alcohol	343 mg/kg bw/day			
Methyl ethyl ketone	1161 mg/kg bw/day			

Consumer - inhalative:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Ethyl alcohol	114 mg/m <sup>3</sup>			950 mg/m <sup>3</sup>
Methyl ethyl ketone	106 mg/m <sup>3</sup>			

Consumer - dermal:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Ethyl alcohol	206 mg/kg bw/day			
Methyl ethyl ketone	412 mg/kg bw/day			

Consumer - oral:

Chemical name	long-term, systemic	short-term, systemic	long-term, local	short-term, local
Ethyl alcohol	87 mg/kg bw/day			
Methyl ethyl ketone	31 mg/kg bw/day			

Predicted No Effect Concentration (PNEC):

component information:

Chemical name	Methyl ethyl ketone CAS: 78-93-3
Freshwater	55.8 mg/L
Marine water	55.8 mg/L
Freshwater (intermittent release)	55.8 mg/L
Sewage treatment	709 mg/L
Freshwater sediment	284.74 mg/kg sediment dw
Marine sediment	284.7 mg/kg sediment dw
Soil	22.5 mg/kg soil dw
Food chain	1000 mg/kg food

## 8.2. Exposure controls

Engineering controls:

Showers, eyewash stations, and ventilation systems.

Personal protective equipment:

The usual precautionary measures for the handling of chemicals have to be observed.



Eye/face protection:

Tight sealing safety goggles.



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Hand protection: Wear suitable gloves. Impervious gloves.

PPE - Glove material	Glove thickness	Break through time
Butyl caoutchouc (butyl rubber)	0.5 mm	>=480 min.
FKM (fluoro rubber)	0.4 mm	>=480 min.

Skin and body protection: Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Recommended Filter Type: Filtering device (full mask or mouthpiec) with filter: AP-2

Environmental exposure controls: No information available.

## SECTION 9: Physical and chemical properties

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

Appearance	Liquid				
Color	colorless				
Odor	Alcohol				
			<i>Conditions</i>	<i>Method</i>	<i>Remarks</i>
Melting point / melting range	~ -118	°C			
Boiling point / boiling range	~ 78	°C			
Flammability					Not established
Decomposition temperature					not relevant
Flash point	~ 12	°C			
Autoignition temperature	425	°C			
Lower explosive limit	3.5	Vol%			
Upper explosion limit	15	Vol%			
Vapor pressure	> 60	hPa	50 °C		
Density	~ 0.806	g/cm <sup>3</sup>	20 °C		
Water solubility					Miscible
pH	7		20 °C		
pH (as aqueous solution)					Not applicable
Partition coefficient					Not established
Kinematic viscosity	< 20.5	mm <sup>2</sup> /s	40 °C		
Odor threshold					Not established
Relative density					Not established
Evaporation rate					Not established
Relative vapor density	no data available				
Particle Size	no data available				
Particle Size Distribution	no data available				

### 9.2. Other information

Bulk density: no data available  
Softening point: No information available  
Molecular weight: No information available

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## 9.2.1. Information with regard to physical hazard classes:

Explosive properties	No data available
Oxidizing properties	No data available

9.2.2. Other safety characteristics: No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity: No information available.

### 10.2. Chemical stability

Stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact:	None.
Sensitivity to static discharge:	Yes.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid: Heat, flames and sparks.

### 10.5. Incompatible materials

Incompatible materials: Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

## SECTION 11: Toxicological information

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

Information on likely routes of exposure:

Product Information:

Inhalation: Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact: Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

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Skin contact: Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

Ingestion: Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: May cause redness and tearing of the eyes.

## Numerical measures of toxicity:

Acute toxicity: The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral): 219,400.00 mg/kg  
ATEmix (dermal): 2,085.40 mg/kg  
ATEmix (inhalation-vapor): 3,400.00 mg/l

Component Information:

Chemical name	Parameter	Species	Effective dose	Method
Ethyl alcohol 64-17-5	Oral LD50	Rat	10470 mg/kg	OECD 401
Methyl ethyl ketone 78-93-3	Oral LD50	Rat	> 2193 mg/kg	OECD 423

Chemical name	Parameters	Species	Effective dose	Method
Ethyl alcohol 64-17-5	Dermal LD50	Rabbit	> 2000 mg/kg	OECD 402
Methyl ethyl ketone 78-93-3	Dermal LD50	Rabbit	> 5000 mg/kg	OECD 402

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Ethyl alcohol 64-17-5	Inhalation LC50	Rat	51 mg/L	4 h	OECD 403
Methyl ethyl ketone 78-93-3	Inhalation LC50	Rat	34 g/m <sup>3</sup>	4 h	

## Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: May cause skin irritation.  
Serious eye damage/eye irritation: Causes serious eye irritation.  
Respiratory or skin sensitization: No information available.  
Germ cell mutagenicity: No information available.  
Carcinogenicity: No information available.  
Reproductive toxicity: No information available.  
STOT - single exposure: No information available.

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STOT - repeated exposure: No information available.

Aspiration hazard: No information available.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

No information available.

### 11.2.2. Other information

No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecotoxicity:

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Ethyl alcohol 64-17-5	LC50	Pimephales promelas	15300 mg/L	96 h	
Methyl ethyl ketone 78-93-3	LC50	Pimephales promelas	3130 - 3320 mg/L	96 h	OECD 203

toxicity to crustacea:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Ethyl alcohol 64-17-5	EC50	Daphnia magna	12340 mg/L	48 h	
Methyl ethyl ketone 78-93-3	EC50	Daphnia magna	> 520 mg/L	48 h	OECD 202

Algae Toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Ethyl alcohol 64-17-5	EC50	Chlorella vulgaris	275 mg/L	72 h	OECD 201
Methyl ethyl ketone 78-93-3	EC50	Pseudokirchneri ella subcapitata	1972 mg/L	72 h	OECD 201

Bacteria toxicity:

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Methyl ethyl ketone 78-93-3	EC0	pseudomonas putida	1150 mg/L	16 h	DIN 38412

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## 12.2. Persistence and degradability

Persistence and degradability:

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
Ethyl alcohol 64-17-5	97 %	28 d	Yes	Aerobic biological treatment	OECD 301 B
Methyl ethyl ketone 78-93-3	98 %	28 d	Yes	Aerobic biological treatment	OECD 301 D

## 12.3. Bioaccumulative potential

Bioaccumulation:

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Ethyl alcohol 64-17-5	-0.35	0.66
Methyl ethyl ketone 78-93-3	0.3	<= 500

## 12.4. Mobility in soil

Mobility in soil: No information available.

Mobility: No information available.

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment: No information available

Chemical name	PBT and vPvB assessment
Ethyl alcohol 64-17-5	The substance is not PBT / vPvB
Methyl ethyl ketone 78-93-3	The substance is not PBT / vPvB

## 12.6. Endocrine disrupting properties.

No information available.

## 12.7. Other adverse effects.

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste from residues/unused products: Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

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Contaminated packaging: Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

Waste codes / waste designations according to EWC / AVV: 07 01 04\* (other organic solvents, washing liquids and mother liquors)

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR:	UN1170
RID:	UN1170
IMDG:	UN1170
IATA:	UN1170

### 14.2 UN proper shipping name

ADR:	ETHANOL SOLUTION
UN1170, ETHANOL SOLUTION, 3, II	

RID:	ETHANOL SOLUTION
UN1170, ETHANOL SOLUTION, 3, II	

IMDG:	ETHANOL SOLUTION
UN1170, ETHANOL SOLUTION, 3, II, (12°C C.C.)	

IATA:	ETHANOL SOLUTION
UN1170, ETHANOL SOLUTION, 3, II	

### 14.3. Transport hazard class(es)

ADR:	3
Hazard label(s)	3
Classification code	F1
ADR Hazard Id (Kemmler Number)	33
Tunnel restriction code	(D/E)
Limited quantity (LQ)	1 L
Excepted quantity	E2

RID:	3
Labels	3
Classification code	F1

IMDG:	3
Hazard label(s)	3
Limited quantity (LQ)	1 L
Excepted quantity	E2
EmS-No.	F-E, S-D

IATA:	3
Hazard label(s)	3
Excepted quantity	E2

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## 14.4. Packing group

ADR: II  
RID: II  
IMDG: II  
IATA: II

## 14.5. Environmental hazards

ADR: No  
RID: No  
IMDG: No  
IATA: No

## 14.6. Special precautions for user

ADR:  
Special Provisions: 144, 601  
RID:  
Special Provisions: 144, 601  
IMDG:  
Special Provisions: 144  
IATA:  
Special Provisions: A180, A3, A58  
ERG Code 3L

## 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

#### European Union:

Regulation (EC) No. 1907/2006 (Annex II - (EC) No. 2020/878) and Regulation (EC) No. 1272/2008

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work:

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken

Authorizations and/or restrictions on use:

- This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Substance subject to authorization per REACH Annex XIV	Restricted substance per REACH Annex XVII
Ethyl alcohol 64-17-5		3. 40. 75.

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Methyl ethyl ketone 78-93-3		3
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Persistent Organic Pollutants:  
(EC) 2019/1021 Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU):

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009: Not applicable

volatile organic compounds (VOC) content:

acc. reg. 2010/75/EC (20°C): 97 %

acc. reg. 2004/42/EC (Decopaint): 97 %

## National regulations:

Denmark:

Chemical name	Denmark - MAL
Ethyl alcohol 64-17-5	7 m <sup>3</sup> /10 g substance MAL factor >0 % by weight [1]
Methyl ethyl ketone 78-93-3	48 m <sup>3</sup> /10 g substance MAL factor >0 % by weight [1]

Germany:

Water hazard class (WGK): slightly hazardous to water (WGK 1) - Classification according to AwSV

Chemical name	WGK Classification (AwSV)	ID number
Ethyl alcohol 64-17-5	1	96
Methyl ethyl ketone 78-93-3	1	150

TA Luft (German Air Pollution Control Regulation):  
org. substances (Ziffer 5.2.5): 95 - 100%

Storage class (TRGS 510): LGK 3 - Flammable liquids

France:

Occupational Illnesses (R-463-3, France):

Chemical name	French RG number
Ethyl alcohol 64-17-5	RG 84
Methyl ethyl ketone 78-93-3	RG 84



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RG 84 - Conditions caused by occupational use of liquid organic solvents

Netherlands:

Chemical name	Ethyl alcohol
Netherlands - List of Carcinogens	Present X
Netherlands - List of Reproductive Toxins	Fertility Category 1A Development Category 1A Can be harmful via breastfeeding

Water contaminating class (Netherlands): B4

Austria:

Flammable Liquids Regulations, VbF Flammable liquids Cat. 2

Poland:

Ordinance of the Minister of Family, Labor and Social Policy dated June 12, 2018 on the highest permissible concentrations and intensities of harmful factors for health in the work environment (Dz. U. 2018 item 1286, as amended)  
Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21; as amended)  
Act on chemical substances and their mixtures of February 25, 2011. (Journal of Laws No. 63, item 322; as amended)  
Regulation of the Minister of Labor and Social Policy of September 26, 1997 on general regulations of safety and hygiene at work (Dz. U. of 2003, No. 169, item 1650; as amended).

Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1: 97 %

Hungary:

Decree No 44/2000 (XII.27.) of the Ministry of Economic Affairs and Labour of the Republic of Hungary on certain procedures and activities Joint Decree No. 5/2020 ITM on Chemical Safety at Work 178/2017 (VII. 5.)  
Government Decree on the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) „A“ and „B“ of the European Agreement on Road Transport

## International Inventories:

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
NZIoC	Complies

## Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**NZIoC** - New Zealand Inventory of Chemicals

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

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**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

Chemical Safety Report: No information available

## SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet:

Full text of H-Statements referred to under section 3:

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

Legend:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road  
(Accord européen relatif transport des marchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)

BCF: Bio-Concentration Factor

BOD(5): Biochemical oxygen demand (within 5 days)

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic, toxic for Reproduction

DIN: German Standards Institute / German industrial norm

DNEL: Derived No Effect Level

DOC: Dissolved organic carbon

EAK/ AVV: European waste catalogue/ waste directory-regulation

EC50: Effective Concentration 50%

ECHA: European Chemical Agency

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

IC50: Inhibition Concentration 50%

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal Concentration 50% - LD50: Lethal dose 50%

MAK: Treshold limit values Germany

NLP: No Longer Polymers

NOAEC: No Observed Adverse Effect Concentration

NOAEL: No Observed Adverse Effect Level

OECD: Organization for Economic Cooperation and Development

PBT: persistent, bioaccumulative, toxic

PC: Product category

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation and Authorization of Chemicals

RID: Regulations concerning the international carriage of dangerous goods by rail

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(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)

STEL: Short-term Exposure Limit

STP: Sewage treatment plant

SVHC: Substance of Very High Concern

TLV: Threshold Limit Value

TWA: Time Weighted Average

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent, very bioaccumulative

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ceiling: Maximum limit value

\* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS:

European Chemicals Agency (ECHA)

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

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Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

Revision date: 23-Aug-2021  
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH):

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**End of Safety Data Sheet**