# SAFETY DATA SHEET



Activator F Liquid

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

1.1 Product identifier	
Product name	: Activator F Liquid
UFI	: 7JU1-9071-000S-15DX
Product code	: 307002
Color	: Green.
Product type	: Liquid.

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

Identified uses	
Activators-Surface treatment products	
Uses advised against	Reason

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

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WEICON GmbH & Co. KG	
Königsberger Str. 25,	
48157 Münster, Germany	
phone: +49 251 93220,	
Fax: +49 251 9322244	
email: info@weicon.de,	
URL: www.weicon.de	
e-mail address of person	: msds@weicon.de
responsible for this SDS	. medel@meleen.de
responsible for this 500	

## 1.4 Emergency telephone number

#### National advisory body/Poison Center

Telephone number	: EMERGENCY CONTACT – UK, UAE, South Africa (24h): Tel: ++44 1865 407333
	(English) TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## 2.2 Label elements

<b>SECTION 2: Hazards</b>	identification
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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H225 - Highly flammable liquid and vapor. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.
Precautionary statements		
General	:	P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children.
Prevention	:	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P261 - Avoid breathing vapor.</li> <li>P264 - Wash thoroughly after handling.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P280 - Wear eye or face protection.</li> </ul>
Response	:	P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. 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 or attention.
Storage	:	P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal	:	P501 - Dispose of waste according to applicable legislation.
Hazardous ingredients	:	propan-2-ol
Supplemental label elements	:	Contains Fatty acids, C10-20-neo May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	:	None known.

## **SECTION 3: Composition/information on ingredients**

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
ethanol	EC: 200-578-6 CAS: 64-17-5	≥75 - ≤90	Flam. Liq. 2, H225 Eye Irrit. 2, H319	-	[1] [2]
Isopropyl alcohol	REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0	≥25 - ≤50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	-	[1] [2]

<b>SECTION 3: Comp</b>	osition/informa	tion on ir	ngredients		
Fatty acids, C9-13-neo-, copper salts	REACH #: 01-2120796052-54 EC: 292-985-0 CAS: 91031-79-7	≥0.3 - <1	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg M [Acute] = 1	[1] [2]
Fatty acids, C6-19-branched, copper (2+) salts	EC: 269-634-5 CAS: 68308-19-0	≥0.3 - <1	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg M [Acute] = 1	[1] [2]
Fatty acids, C10-20-neo-	EC: 285-549-6 CAS: 85116-96-7	≥0.3 - <1	Skin Sens. 1B, H317 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	-	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

4.1 Descriptior	of first aid	measures
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Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

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## **SECTION 4: First aid measures**

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	: No specific data.
Ingestion	: No specific data.

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

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	<ul> <li>Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.</li> </ul>
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Evacuate s entering. D No flares, s Provide ade	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.					
For emergency responders	information	ed clothing is required to o in Section 8 on suitable a in "For non-emergency p	and unsuitable mate	, j			
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## **SECTION 6: Accidental release measures**

6.2 Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
6.3 Methods and materials for	r containment and cleaning up	
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.	
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.	

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Seveso Directive - Reporting thresholds

#### Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne

## **SECTION 7: Handling and storage**

## 7.3 Specific end use(s)

Recommendations Industrial sector specific : Not available.

solutions

: Not available.

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

## 8.1 Control parameters

## **Occupational exposure limits**

Product/ingredient name	Exposure limit values
ethanol	<ul> <li>DFG MAC-values list (Germany, 7/2022).</li> <li>TWA: 200 ppm 8 hours.</li> <li>PEAK: 800 ppm, 4 times per shift, 15 minutes.</li> <li>TWA: 380 mg/m<sup>3</sup> 8 hours.</li> <li>PEAK: 1520 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</li> <li>TRGS 900 OEL (Germany, 4/2023).</li> <li>TWA: 380 mg/m<sup>3</sup> 8 hours.</li> <li>PEAK: 1520 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 200 ppm 8 hours.</li> <li>PEAK: 800 ppm 15 minutes.</li> </ul>
Isopropyl alcohol	<ul> <li>TRGS 900 OEL (Germany, 4/2023).</li> <li>TWA: 500 mg/m<sup>3</sup> 8 hours.</li> <li>PEAK: 1000 mg/m<sup>3</sup> 15 minutes.</li> <li>TWA: 200 ppm 8 hours.</li> <li>PEAK: 400 ppm 15 minutes.</li> <li>DFG MAC-values list (Germany, 7/2022).</li> <li>TWA: 200 ppm 8 hours.</li> <li>PEAK: 400 ppm, 4 times per shift, 15 minutes.</li> <li>TWA: 500 mg/m<sup>3</sup> 8 hours.</li> <li>PEAK: 1000 mg/m<sup>3</sup>, 4 times per shift, 15 minutes.</li> </ul>
Fatty acids, C9-13-neo-, copper salts	DFG MAC-values list (Germany, 7/2022). [Copper and its inorganic compounds] PEAK: 0.02 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Form: respirable fraction TWA: 0.01 mg/m <sup>3</sup> 8 hours. Form: respirable fraction
Fatty acids, C6-19-branched, copper(2+) salts	DFG MAC-values list (Germany, 7/2022). [Copper and its inorganic compounds] PEAK: 0.02 mg/m <sup>3</sup> , 4 times per shift, 15 minutes. Form: respirable fraction TWA: 0.01 mg/m <sup>3</sup> 8 hours. Form: respirable fraction

## **Biological exposure indices**

Product/ingredient propan-2-ol	name	BEI: 25 mg/l, aceto or end of shift. BEI: 25 mg/l, aceto or end of shift. <b>TRGS 903 - BEI Va</b> BEI: 25 mg/l, aceto exposure or end of	one [in urine]. Sampl Ilues (Germany, 2/2 one [in whole blood]. shift.	?) ling time: end of exposure ing time: end of exposure
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## SECTION 8: Exposure controls/personal protection

Fatty acids, C9-13-neo-, copper salts Fatty acids, C6-19-branched, copper(2+) salts	or end of shift. <b>DFG BEI-values list (Germany, 7/2022) [Copper and its</b> <b>inorganic compounds]</b> BEI: See Section XV.2: For the following substances currently no BAR may be derived, but there is documentation in the "Occupational medicine and toxicology Justifications for BAT values, EKA, BLW, and BAR", copper [in urine]. Sampling time: Sample time not specified. <b>DFG BEI-values list (Germany, 7/2022) [Copper and its</b> <b>inorganic compounds]</b> BEI: See Section XV.2: For the following substances currently no BAR may be derived, but there is documentation in the "Occupational medicine and toxicology Justifications for BAT values, EKA, BLW, and BAR", copper [in urine]. Sampling time: Sample time not specified.
procedures European Stand assessment of values and mea atmospheres - of exposure to o (Workplace atm for the measure	Id be made to monitoring standards, such as the following: dard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit asurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be

#### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
ethanol	DNEL	Long term Oral	87 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	114 mg/m³	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	380 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	950 mg/m³	General population	Local
	DNEL	Short term Inhalation	1900 mg/ m³	Workers	Local
Isopropyl alcohol	DNEL	Long term Oral	26 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	51 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	89 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	178 mg/m <sup>3</sup>	General population	Systemic
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	DNEL	Long term Dermal	319 mg/kg bw/day	General population	Systemic		
	DNEL	Long term Inhalation	500 mg/m³	Workers	Systemic		
	DNEL	Long term Dermal	888 mg/kg bw/day	Workers	Systemic		
	DNEL	Short term Inhalation	1000 mg/ m³	Workers	Systemic		
Fatty acids, C9-13-neo-, copper salts	DNEL	Long term Inhalation	0.39 mg/m <sup>3</sup>	General population	Systemic		
	DNEL	Long term Oral	0.42 mg/ kg bw/day	General population	Systemic		
	DNEL	Long term Dermal	0.45 mg/ kg bw/day	General population	Systemic		
	DNEL	Long term Dermal	0.89 mg/ kg bw/day	Workers	Systemic		
	DNEL	Long term Inhalation	1.57 mg/m³	Workers	Systemic		
Fatty acids, C10-20-neo-	DNEL	Long term Oral	17.5 mg/ kg bw/day	General population	Systemic		
	DNEL	Long term Dermal	17.5 mg/ kg bw/day	General population	Systemic		
	DNEL	Long term Inhalation	25.79 mg/ m³	General population	Systemic		
	DNEL	Long term Dermal	29 mg/kg bw/day	Workers	Systemic		
	DNEL	Long term Inhalation	86 mg/m³	Workers	Systemic		

## **PNECs**

No PNECs available.

## 8.2 Exposure controls

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.			
Individual protection meas	ures			
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.			
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.			
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## **SECTION 8: Exposure controls/personal protection**

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Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended : 1 - 4 hours (breakthrough time): Protective gloves made of nitrile rubber (material thickness of 0,4 mm); EN 374-5 Cat. III ; 4 - 8 hours (breakthrough time): Protective gloves made of Viton®/ butyl rubber (material thickness of 0,7 mm); EN388 Cat.II / EN374 Cat.III / EN374-2
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

## 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Green.
Odor	: Characteristic.
Odor threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: >78°C (>172.4°F)
Flammability	: Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts. Emits toxic fumes when heated to decomposition.
Lower and upper explosion limit	: Not available.
Flash point	: Closed cup: <23°C (<73.4°F)
Auto-ignition temperature	Not applicable.
Decomposition temperature	: Not available.
рН	: Not applicable.
Viscosity	: Not available.
Not available.	
Solubility in water	: Not available.

## **SECTION 9: Physical and chemical properties**

1

Partition coefficient: n-octanol/ : Not applicable. water

## Vapor pressure

		Vapor Pressure at 20°C		v	Vapor pressure at 50°C		
Ingredient name	m	m Hg	kPa	Method	mm Hg	kPa	Method
ethanol	42	.94865	5.7				
propan-2-ol	33	.00268	4.4				
Fatty acids, C10-20-neo-	0.0	000067	0.000089	EU A.4			
Relative density	: Not available.						
Density		: 0.8	g/cm³				
Vapor density		: Not	available.				
Particle characteristics							
Median particle size		: Not	applicable.				
9.2.1 Information with rega	rd to						
Explosive properties				presence of th ducing materia	e following materi	ials or cond	litions: oxidizing
Oxidizing properties			available.	aucing materie			
9.2.2 Other safety characte	risti						
Miscible with water		: No.					
SECTION 10: Stabili	tv s	and ro	activity				
	-		•				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.						
10.2 Chemical stability	:	: The product is stable.					
10.3 Possibility of hazardous reactions	:	: Under normal conditions of storage and use, hazardous reactions will not occur.					
10.4 Conditions to avoid	:	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.					
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials					
10.6 Hazardous decomposition products	:	: Highly reactive or incompatible with the following materials: oxidizing materials, reducing materials, acids and alkalis.					

## **SECTION 11: Toxicological information**

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

## Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
propan-2-ol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
Conclusion/Summary	Not available.			
Acute toxicity estimates				
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## **SECTION 11: Toxicological information**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
ethanol	7000	N/A	N/A	124.7	N/A
propan-2-ol	5000	12800	N/A	N/A	N/A
Fatty acids, C9-13-neo-, copper salts	500	N/A	N/A	N/A	N/A
Fatty acids, C6-19-branched, copper(2+) salts	500	N/A	N/A	N/A	N/A

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	100 uL	-
	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	400 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
propan-2-ol	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
Conclusion/Summary	: Not available.				
Sensitization	- NI 6				
Conclusion/Summary	: Not available.				

-	
Mutagenicity	
<b>Conclusion/Summary</b>	: Not available.
<b>Carcinogenicity</b>	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
<b>Teratogenicity</b>	
<b>Conclusion/Summary</b>	: Not available.

## Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
propan-2-ol	Category 3	-	Narcotic effects

## Specific target organ toxicity (repeated exposure)

Not available.

## Aspiration hazard

Not available.

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Information on the likely routes of exposure	: Not available.				
Potential acute health effect	<u>2ts</u>				
Eye contact	: Causes serious eye irritation.				
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.				
Skin contact	: No known significant effects or critical hazards.				
Ingestion	: Can cause central nervous system (CNS) depression.				
Eye contact	<ul> <li>hysical, chemical and toxicological characteristics</li> <li>Adverse symptoms may include the following: pain or irritation watering redness</li> </ul>				
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo				

		unconsciousness
Skin contact	:	No specific data.
Ingestion	:	No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>cts</u>
Not available.	
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

## 11.2 Information on other hazards

11.2.1 Endocrine disrupting propertiesNot available.11.2.2 Other informationNot available.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna -</i> Neonate	21 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - <i>Gambusia holbrooki -</i> Larvae	12 weeks
lsopropyl alcohol	Acute EC50 7550 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours

## 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.35	-	Low
Isopropyl alcohol	0.05	-	Low
Fatty acids, C10-20-neo-	>3	-	Low

## 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
wobility	

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## 12.6 Endocrine disrupting properties

Not available.

## 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

European waste catalogue (EWC)

-		
Waste code		Waste designation
08 01 11*	waste paint and vari	nish containing organic solvents or other hazardous substances
Packaging		
Methods of disposal		of waste should be avoided or minimized wherever possible. Waste uld be recycled. Incineration or landfill should only be considered is not feasible.
Type of packaging		European waste catalogue (EWC)
Can	15 01 10*	packaging containing residues of or contaminated by hazardous substances
Special precautions	taken when hai Empty containe residues may c container. Do i thoroughly inter	nd its container must be disposed of in a safe way. Care should be ndling emptied containers that have not been cleaned or rinsed out. ers or liners may retain some product residues. Vapor from product reate a highly flammable or explosive atmosphere inside the not cut, weld or grind used containers unless they have been cleaned rnally. Avoid dispersal of spilled material and runoff and contact with , drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN1987	UN1987	UN1987	UN1987
14.2 UN proper shipping name	ALCOHOLS, N.O.S. (ethanol, Isopropyl alcohol)	ALCOHOLS, N.O.S. (ethanol, Isopropyl alcohol)	ALCOHOLS, N.O.S. (ethanol, Isopropyl alcohol)	Alcohols, n.o.s. (ethanol, Isopropyl alcohol)
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	II	II	II	11
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

## **SECTION 14: Transport information**

•		
ADR/RID	:	Hazard identification number 33 Limited quantity 1 L Special provisions 601, 274, 640D Tunnel code (D/E) ADR Classification Code: F1
ADN	:	The product is only regulated as an environmentally hazardous substance when transported in tank vessels. <b>Special provisions</b> 274, 601, 640D
IMDG	:	Emergency schedules F-E, S-D Special provisions 274
ΙΑΤΑ	:	<b>Quantity limitation</b> Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341. <b>Special provisions</b> A3, A180
14.6 Special precautions for user	:	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Maritime transport in bulk according to IMO instruments	:	Not available.
1		

## SECTION 15: Regulatory information

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

## EU Regulation (EC) No. 1907/2006 (REACH)

## Annex XIV - List of substances subject to authorization

### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name		%	Designation [Usage]			
Activator F Liquid		≥90	3			
Labeling	: Not applicab	le.				
Other EU regulations						
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed					
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed					
Explosive precursors	: Not applicab	ole.				
Ozone depleting substance Not listed.	<u>es (1005/2009/E</u>	<u>:U)</u>				
Prior Informed Consent (PI Not listed.	<u>C) (649/2012/E</u>	<u>U)</u>				
Persistent Organic Polluta	<u>nts</u>					
Date of issue/Date of revision	: 4/1/2025	Date of previ	ous issue : 3/28/2025	Version	:4.1	15/17

## SECTION 15: Regulatory information

### Not listed.

### **Seveso Directive**

This product is controlled under the Seveso Directive.

## Danger criteria

Category	
P5c	

## National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
ethanol	DFG MAC-values list	Ethanol; Ethyl alcohol	K5, M5	-

## Storage class (TRGS 510) : 3

## Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Category		Reference number
P5c		1.2.5.3
Hazard class for water	: 2	
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 90.1-100% TA-Luft Class III - Number 5.2.2: 0.2-2%	
International regulations		
Chemical Weapon Conventi Not listed.	on List Schedules I, II & III Chemicals	
Montreal Protocol Not listed.		
Stockholm Convention on P Not listed.	ersistent Organic Pollutants	
Rotterdam Convention on P	rior Informed Consent (PIC)	
Not listed.		
UNECE Aarhus Protocol on	POPs and Heavy Metals	
Not listed.		
Inventory list		
Australia	: Not determined.	
Canada	: Not determined.	
China	: All components are listed or exempted.	
Eurasian Economic Union	: Russian Federation inventory: All components	are listed or exempted.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.	
New Zealand	: Not determined.	
Philippines	: Not determined.	
Republic of Korea	: Not determined.	
Taiwan	: Not determined.	

## SECTION 15: Regulatory information

15.2 Chemical Safety	:	This product contains substances for which Chemical Safety Assessments are still
Assessment		required.

## SECTION 16: Other information

Indicates informat	ion that has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	SGG = Segregation Group
	vPvB = Very Persistent and Very Bioaccumulative

## Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
	On basis of test data Calculation method Calculation method

#### Full text of abbreviated H statements

H225 H302 H317 H319	Highly flammable liquid and vapor. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

#### Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4	
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1	
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2	
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -	
	Category 3	

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