

cohol Suppliers Safety Data Sheet according to Regulation (EU) 2015/830 Issue date: 3/11/2021 Version: 1.0

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Ethanol 24-70% vol. (Alcoholic Beverages)
EC Index-No.	: 603-002-00-5
EC-No.	: 200-578-6
CAS-No.	: 64-17-5
REACH registration No	: 01-2119457610-43-xxxx
Formula	: C2H6O

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

1.2.1. Relevant identified uses

Main use category Use of the substance/mixture	 Industrial use,Professional use Food sector: Beverages, food products such as mildew/antibacterial, alcohol fort his use shall conform to EC Regulation 110/2008. Relevant indentified uses: (non food sector): Function: solvent for industrial applications and raw material for fuel, antifreeze fluids, detergents, inks, and cosmetics. Used in chemical laboratory and manufacturing chemicals. Heat transfer agent. Intermediate. Food sector: Beverages, food products such as mildew/antibacterial, alcohol fort his use shall conform to EC Regulation 110/2008. Relevant indentified uses: (non food sector): Function: solvent for industrial applications and raw material for fuel, antifreeze fluids, detergents, inks, and cosmetics. Used in chemical laboratory and manufacturing chemicals.
	detergents, inks, and cosmetics. Used in chemical laboratory and manufacturing chemicals. Heat transfer agent. Intermediate.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Sasma		
Willem Dreeslaan 301		
2729 NE Zoetermeer - Netherlands		
T +31 79 363 30 64		
sales@sasmabv.com - www.sasmabv.com		

1.4. Emergency telephone number

Emergency number

: Worldwide: For Hazardous Materials (or Dangerous Goods) Incident, Spill, Leak, Exposure, or Acident – Call NCEC Day or Night(24/7) +441865407333 - SASMA29003-NCEC

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

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 environme	ital effects	

Highly 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
Contains	: Ethanol; Water
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation.
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed.
	P403+P235 - Store in a well-ventilated place. Keep cool.
	P280 - Wear protective clothing, eye protection, face protection, protective gloves.
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
	P370+P378 - In case of fire: Use dry extinguishing powder, carbon dioxide (CO2) to extinguish.
Listed in Annex VI	: EC Index-No. : 603-002-00-5
2.3. Other hazards	

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43-xxxx	24 – 70	Flam. Liq. 2, H225 Eye Irrit. 2, H319

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Respiratory arrest: artificial respiration or oxygen. Vomiting: prevent asphyxia/aspiration pneumonia. If medical advice is needed, have product container or label at hand. Keep watching the victim. Check the vital functions. Keep the victim calm, avoid physical strain. IF exposed or concerned: Get medical advice/attention. Prevent cooling by covering the victim (no warming up).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service. Give oxygen or artificial respiration if necessary. keep the victim calm, in a half-sitting position.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell. Do not induce vomiting.

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4.2. Most important symptoms and eff	fects, both acute and delayed
Symptoms/effects after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination.
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 Contact during a long period may cause light irritation. Eye irritation. Central nervous system depression. Nausea. Vomiting.

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

Treat symptomatically.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Solid water jet ineffective as extinguishing medium.
5.2. Special hazards arising from the subst	ance or mixture
Fire hazard Hazardous decomposition products in case of fire	Highly flammable liquid and vapour.Toxic fumes may be released. Upon combustion: CO and CO2 are formed.
5.3. Advice for firefighters	
Precautionary measures fire	: Eliminate all ignition sources if safe to do so. Keep container closed when not in use. Keep container tightly closed and away from heat, sparks and flame. Keep cool. Protect from sunlight.
Firefighting instructions	 Eliminate all ignition sources if safe to do so. Keep people away. Isolate the area where it burns and do not stand unnecessary entrance. Use water spray around containers that have been exposed to fire and put it on the fire cool the affected area until the fire is extinguished and the danger of re-ignition has passed. Fight fire from protected place or at a safe distance. Consider using unmanned water cannons. Immediately remove all personnel from the area upon detection the safety valve or discoloration of the container. Burning liquids can be extinguished by diluting with water. Do not use a direct water jet. This can spread the fire. Move container away from fire area, if this can be done without danger. Burning liquids may be removed with running water to protect personnel and damage to minimize property. Take account of environmentally hazardous firefighting water.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release mease	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
General measures	: If leakage cannot be stopped, evacuate the area. Ensure adequate ventilation. Avoid breathing vapors / spray and contact with skin and eyes. Not spilled material touch or walk in. Eliminate all sources of ignition. Keep away from heat, sparks and open fire. Wear protective clothing as described in Section 8 of this Safety Data Sheet.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
For containment	: Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Do not use compressed air for pumping over spills. Do not touch or walk on the spilled product. Provide adequate ventilation.	
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

7.1. Precautions for safe handling	
Additional hazards when processed	: In use, may form flammable vapour-air mixture. Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container. Do not pierce or burn, even after use.
Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inc	uding any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed.
Incompatible products	: Oxidizing agent. Strong acids.
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.
Information on mixed storage	 KEEP SUBSTANCE AWAY FROM: oxidizing agents. ignition sources. highly flammable materials. combustible materials.
Storage area	: Keep out of direct sunlight. Store away from heat. Fireproof storeroom. Store in a dark area Store in a dry area. Store in a well-ventilated place. Store in a cool area.
Packaging materials	: SUITABLE MATERIAL: HDPE, iron, carbon steel, synthetic material, metal, polypropylene, stainless steel, glass. MATERIAL TO AVOID: aluminium, PVC, zinc, copper.

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethanol 24-70% vol. (Alcoholic Beverages) (64-17-5)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	950 mg/m³	
Long-term - local effects, inhalation	1900 mg/m ³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	87 mg/kg bodyweight/day	

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Long-term - systemic effects, inhalation	114 mg/m³	
Long-term - systemic effects, dermal	206 mg/kg bodyweight/day	
Long-term - local effects, inhalation	950 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.96 mg/l	
PNEC aqua (marine water)	0.79 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	3.6 mg/kg dwt	
PNEC sediment (marine water)	2.9 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.63 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	380 mg/kg food	
PNEC (STP)		
PNEC sewage treatment plant	580 mg/l	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: butyl rubber. GIVE LESS RESISTANCE: chloroprene rubber

Hand protection:							
Protective gloves							
Туре	Material		Permeation	Thickness (mm)	Penetratio	on	Standard
Reusable gloves	Butyl rubbe rubber (NB		6 (> 480 minutes)	0.5			EN ISO 374
Eye protection:							
Safety glasses							
Туре		Use		Characteristics Standard			
Safety goggles		With side shields			EN 166		
Skin and body protection:							
Wear fire/flame resistant/retardant clothing. Chemical resistant safety shoes							
Respiratory protec	tion:						

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Gas mask	Type A - High-boiling (>65 °C) organic compounds		EN 14387

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according to Regulation (EO) 2015/830

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment. Ethanol is classed as a VOC under Directive 99/13/EC. Abatement measures such as incineration or recovery should be used in combination with emission controls to ensure compliance with this legislation.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Clear liquid.	
Molecular mass	: 46.07 g/mol	
Colour	: Colourless.	
Odour	: Alcohol odour. Pleasant odour.	
Odour threshold	: 100 ppm	
	18.8 mg/m ³	
рН	: 7	
pH solution	: 10 g/l	
Relative evaporation rate (butylacetate=1)	: 2.4	
Relative evaporation rate (ether=1)	: 8.3	
Melting point	: -114 °C	
Freezing point	: No data available	
Boiling point	: 78 °C	
Flash point	: 21 – 34 °C	
Auto-ignition temperature	: 363	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not applicable	
Vapour pressure	: 5726 Pa @ 20° C	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 0.7844 g/cm³ @ 25 °C	
Solubility	: Soluble in water. Soluble in ether. Soluble in acetone. Soluble in chloroform. Soluble in	
	oils/fats. Soluble in methanol. Soluble in acids.	
	Water: Full	
Partition coefficient n-octanol/water (Log Pow)	: -0.35	
Viscosity, kinematic	: 1.53 mm²/s	
Viscosity, dynamic	: 1.2 mPa·s	
Explosive properties	: the study does not need to be conducted because there are no chemical groups present in	
	the molecule which are associated with explosive properties.	
Oxidising properties	: the study does not need to be conducted because there are no chemical groups present in	
	the molecule which are associated with oxidising properties and hence, the classification	
	procedure does not need to be applied.	
Lower explosive limit (LEL)	: 2.5 vol %	
Upper explosive limit (UEL)	: 13.5 vol %	
9.2. Other information		
Specific conductivity	: <1 µS/m	
VOC content	: 640 – 799 %	
Refractive index	: 1.361 @ 20 °C	
Other properties	: Gas/vapour heavier than air at 20°C. Clear. Volatile.	
	. Gas vapour neaver than at 20 0. Oreat. Volatile.	

SECTION 10: Stability and reactivity

10.1. Reactivity

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Strong oxidizing agents, Peroxides, Alkali metals, Ammonia, Hydrogen peroxide.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Oxidizing agent. Strong acids.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxide.

SECTION 11: Toxicological in	formation
11.1. Information on toxicologica	Il effects
Acute toxicity (oral) Acute toxicity (dermal)	: Not classified : Not classified
Acute toxicity (inhalation)	: Not classified

Ethanol 24-70% vol. (Alcoholic Beverages) (64-17-5)	
LD50 oral rat	6.2 – 15 g/kg
LD50 dermal rabbit	16000 mg/kg
LC50 Inhalation - Rat (Vapours)	> 50 mg/l/4h

Ethanol (64-17-5)	
LD50 oral rat	15010 mg/kg
LD50 dermal rabbit	16000 mg/kg
LC50 Inhalation - Rat [ppm]	> 60000 ppm/1h
Skin corrosion/irritation	: Not classified pH: 7
Serious eye damage/irritation	: Causes serious eye irritation. pH: 7
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	 Not classified Not classified Not classified

Ethanol 24-70% vol. (Alcoholic Beverages) (64-17-5)		
NOAEL (chronic, oral, animal/male, 2 years)	> 3000 mg/kg bodyweight Rat	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	

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Ethanol 24-70% vol. (Alcoholic Beverages) (64-17-5)	
Viscosity, kinematic	1.53 mm²/s

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
Hazardous to the aquatic environment, short-term (acute)	: Not classified	
Hazardous to the aquatic environment, long-term (chronic)	: Not classified	
Ethanol 24-70% vol. (Alcoholic Beverages)	(64-17-5)	

Ethanol 24-70% vol. (Alcoholic Beverages) (64-17-5)		
LC50 fish 1	13 g/l	
EC50 Daphnia 1	12.3 g/l	
EC50 72h algae (1)	275 mg/l	

Ethanol (64-17-5)		
LC50 fish 1	14200 mg/l	
EC50 Daphnia 1	5012 mg/l	
EC50 72h algae (1)	275 mg/l	

12.2. Persistence and degradability

Ethanol 24-70% vol. (Alcoholic Beverages) (64-17-5)			
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.		
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance		
ThOD	2.1 g O ₂ /g substance		
Biodegradation	84 %		

)	64-17-5)	Ethanol
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Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance
ThOD	2.1 g O ₂ /g substance

12.3. Bioaccumulative potential

Ethanol 24-70% vol. (Alcoholic Beverages) (64-17-5)			
Partition coefficient n-octanol/water (Log Pow)	-0.35		
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).			
Ethanol (64-17-5)			

Partition coefficient n-octanol/water (Log Pow)	0.35	

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12.4. Mobility in soil			
Ethanol 24-70% vol. (Alcoholic Beverages) (64	4-17-5)		
Mobility in soil	Release to air or water: is disperded rapidly.	Ethanol is volatile and water soluble an	
	Release to soil or sediments: rapid rate.	Ethanol	is poorly absorbed and evaporates at a

12.5. Results of PBT and vPvB assessment

Ethanol 24-70% vol. (Alcoholic Beverages) (64-17-5)
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component	
Ethanol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Do not burn empty packaging. Do not cut using a blowtorch. Beware of residues or vapours which remain in the drums.
Additional information	: Flammable vapours may accumulate in the container.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number	II			l
UN 3065	UN 3065	UN 3065	UN 3065	UN 3065
14.2. UN proper shippin	g name		-	-
ALCOHOLIC BEVERAGES	ALCOHOLIC BEVERAGES	Alcoholic beverages	ALCOHOLIC BEVERAGES	ALCOHOLIC BEVERAGES
Transport document descr	iption			-
UN 3065 ALCOHOLIC BEVERAGES, 3, III, (D/E)	UN 3065 ALCOHOLIC BEVERAGES, 3, III			
14.3. Transport hazard o	lass(es)		1	I
3	3	3	3	3
14.4. Packing group	· · · · · ·		1	
III	III		III	III

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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 av	ailable		1		
14.6. Special precautions fo	or user				
Overland transport					
Classification code (ADR)	:	F1			
Special provisions (ADR)	:	144, 145, 247			
Limited quantities (ADR)		51			
Excepted quantities (ADR)	:	: E1			
Packing instructions (ADR)		: P001, IBC03, R001			
Special packing provisions (ADR)		PP2			
Mixed packing provisions (ADR)		MP19			
Portable tank and bulk container	· · ·				
Portable tank and bulk container	special provisions :	TP1			
(ADR)					
Tank code (ADR)		LGBF FL			
Vehicle for tank carriage Transport category (ADR)					
Special provisions for carriage - F		5 V12			
Special provisions for carriage - C	• • •	\$2 \$2			
Hazard identification number (Kei	,	30			
Orange plates	:				
		30 3065			
Tunnel restriction code (ADR)		D/E			
EAC code	:	•2YE			
Transport by sea					
Special provisions (IMDG)		144, 145, 247			
Limited quantities (IMDG)		5 L			
Excepted quantities (IMDG)		E1			
Packing instructions (IMDG) Special packing provisions (IMDG)		P001 PP2			
IBC packing instructions (IMDG)	•	IBC03			
Tank instructions (IMDG)		T2			
Tank special provisions (IMDG)		TP1			
EmS-No. (Fire)		F-E			
EmS-No. (Spillage)		S-D			
Stowage category (IMDG)	:				
Properties and observations (IME		Alcoholic beverages containing when transported as part of the barrels with a capacity of more t general requirements of 4.1.1, a barrels should be checked and t should be left to allow for the ex transported with the bungholes transported in containers meetir Containers (CSC), as amended cradles and should be wedged I in any way during transport; and stowed in open cargo spaces or for class 3 flammable liquids wit SOLAS, 74, as amended.	manufacturing process, may h than 250 litres and not more th as appropriate, on the following tightened before filling; 2. suffi spansion of the liquid; 3. the wo pointing upwards; 4. the wood ng the requirements of the Inter . Each wooden barrel should h by appropriate means to preve d 5. when carried on board shi r in enclosed cargo spaces con	be transported in wooden han 500 litres meeting the g conditions: 1. the wooden cient ullage (not less than 3 boden barrels should be en barrels should be ernational Convention for Sa be secured in custom-made ent them from being displace ps, the containers should be mplying with the requirement	
Air transport		F1			
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)		E1 Y344			

PCA Limited quantities (IATA)

PCA limited quantity max net quantity (IATA)

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PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA)	: 355 : 60L : 366 : 220L : A9, A58 : 3L
Inland waterway transport Classification code (ADN) Special provisions (ADN) Limited quantities (ADN) Excepted quantities (ADN) Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN)	: F1 : 144, 145, 247 : 5 L : E1 : PP, EX, A : VE01 : 0
Rail transport Classification code (RID) Special provisions (RID) Limited quantities (RID) Excepted quantities (RID) Packing instructions (RID) Special packing provisions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions	: F1 : 144, 145, 247 : 5L : E1 : P001, IBC03, R001 : PP2 : MP19 : T2 : TP1
(RID) Tank codes for RID tanks (RID) Transport category (RID) Special provisions for carriage – Packages (RID) Colis express (express parcels) (RID) Hazard identification number (RID)	: LGBF : 3 : W12 : CE4 : 30

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:		
Reference code	Applicable on	
3(a)	Ethanol	
3(b)	Ethanol	
40.	Ethanol	

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

VOC content

: 640 – 799 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Abbreviations and acro	onyms:
CAS-No.	Chemical Abstract Service number
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
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N.O.S.	Not Otherwise Specified
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
OEL	Occupational Exposure Limit
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
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TRGS	Technical Rules for Hazardous Substances
SDS	Safety Data Sheet
VOC	Volatile Organic Compounds
WGK	Water Hazard Class

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vРvВ	Very Persistent and Very Bioaccumulative
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
H225	Highly flammable liquid and vapour.	
H319	Causes serious eye irritation.	

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.