

according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 1 of 15

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

1.1. Product identifier

Ethanol 99 %, denatured (MEK/IPA/BTX)

UFI:

J5NY-K0GN-P006-HEA2

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

Use of the substance/mixture

Use as laboratory reagent

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	MORPHISTO GmbH	
Street:	Schumannstr. 142/144	
Place:	D-63069 Offenbach	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
E-mail:	info@morphisto.de	
Contact person:	Morphisto GmbH	
E-mail:	gefahrstoffmanagement@morphisto.de	9
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Poison Information Center Mainz, Gern	many, Tel: +49(0)6131/19240

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Signal word:

Pictograms:



Hazard statements

H225	Highly flammable liquid and va
H319	Causes serious eve irritation.
Precautionary stateme	5

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P233	Keep container tightly closed.
P243	Take action to prevent static discharges.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P235	Store in a well-ventilated place. Keep cool.

and vapour.

according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxx

Page 2 of 15

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger Pictograms:



2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1% or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name					
	EC No	Index No	REACH No			
	Classification (GB CLP Regulation					
64-17-5	ethanol			70-100 %		
	200-578-6	603-002-00-5	01-2119457610-43			
	Flam. Liq. 2, Eye Irrit. 2; H225 H	319				
67-63-0	2-propanol	<2 %				
	200-661-7	603-117-00-0	01-2119457558-25			
	Flam. Liq. 2, Eye Irrit. 2, STOT S					
78-93-3	butanone	<2 %				
	201-159-0	606-002-00-3	01-2119457290-43			
	Flam. Liq. 2, Eye Irrit. 2, STOT S					
3734-33-6	Denatoniumbenzoate			<1 %		
	223-095-2					
	Acute Tox. 4, Acute Tox. 4, Skin H412					

Full text of H and EUH statements: see section 16.



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 3 of 15

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Cond	c. Limits, M-factors and ATE		
64-17-5	200-578-6	ethanol	70-100 %	
	inhalation: Lo mg/kg Eye l			
67-63-0	200-661-7	2-propanol	<2 %	
	dermal: LD5	0 = >5000 mg/kg; oral: LD50 = >5000 mg/kg		
78-93-3	201-159-0	butanone	<2 %	
	dermal: LD5	0 = >2000 mg/kg; oral: LD50 = 2054 mg/kg		
3734-33-6	223-095-2	Denatoniumbenzoate	<1 %	
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: ATE = 500 mg/kg			

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. In case of accident by inhalation: remove casualty to fresh air and keep at rest. If unconscious but breathing normally, place in recovery position and seek medical advice. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth immediately and drink plenty of water. Seek medical advice.

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

Treat symptomatically.

Percutaneously absorbed and inhaled substance causes next to irritation of affected mucous membranes only an indicated impairment of the inhibitory functions of the central nervous system, clinically recognizable as the beginning of a euphoric stage. At the same time face and skin redness is caused by dilation of peripheral blood vessels in the body.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Dry extinguishing powder. alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air. Vapours are heavier than air and will spread at floor level. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Do not inhale explosion and combustion gases.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 4 of 15

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Ventilate affected area. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Special danger of slipping by leaking/spilling product. Wear personal protection equipment. (refer to chapter 8)

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Ventilate affected area. Clear contaminated areas thoroughly.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Flammable vapours can accumulate in head space of closed systems. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Protect skin by using skin protective cream.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep/Store only in original container. Protect from direct sunlight.

Ensure adequate ventilation of the storage area. Concentrated vapours are heavier than air. Suitable material for Container: Stainless steel. (1.4301 (V2), 1.4401 (V4)); iron. solvent resistant plastics. Unsuitable materials for Container: Aluminium. Rubber. various plastics.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances or mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

storage temperature: 15-25 °C

7.3. Specific end use(s)

Use as laboratory reagent



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 5 of 15

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

DNEL/DMEL values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
64-17-5	ethanol						
Worker DNEL,	acute	inhalation	local	1900 mg/m³			
Worker DNEL,	long-term	dermal	systemic	343 mg/kg bw/day			
Worker DNEL,	long-term	inhalation	systemic	950 mg/m³			
Consumer DN	EL, acute	inhalation	local	950 mg/m³			
Consumer DN	EL, long-term	dermal	systemic	206 mg/kg bw/day			
Consumer DN	EL, long-term	inhalation	systemic	114 mg/m³			
Consumer DN	EL, long-term	oral	systemic	87 mg/kg bw/day			
67-63-0	2-propanol						
Worker DNEL,	long-term	inhalation	systemic	500 mg/m³			
Consumer DN	EL, long-term	inhalation	systemic	89 mg/m³			
Worker DNEL,	long-term	dermal	systemic	888 mg/kg bw/day			
Consumer DN	EL, long-term	oral	systemic	26 mg/kg bw/day			
Consumer DN	EL, long-term	dermal	systemic	319 mg/kg bw/day			
78-93-3	butanone						
Worker DNEL,	long-term	inhalation	systemic	600 mg/m³			
Worker DNEL,	long-term	dermal	systemic	1161 mg/kg bw/day			



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 6 of 15

PNEC values

CAS No	Substance						
Environment	tal compartment	Value					
64-17-5	ethanol						
Freshwater		0,96 mg/l					
Freshwater	(intermittent releases)	2,75 mg/l					
Marine wate	Marine water						
Marine wate	Marine water (intermittent releases)						
Freshwater s	sediment	3,6 mg/kg					
Marine sedir	nent	2,9 mg/kg					
Secondary p	poisoning	0,72 mg/kg					
Micro-organi	Micro-organisms in sewage treatment plants (STP)						
Soil	0,63 mg/kg						
67-63-0	2-propanol						
Freshwater	140,9 mg/l						
Marine wate	r	140,9 mg/l					
Freshwater s	sediment	552 mg/kg					
Marine sedir	nent	552 mg/kg					
Secondary p	poisoning	160 mg/kg					
Soil		28 mg/kg					
78-93-3	butanone						
Freshwater		55,8 mg/l					
Freshwater	(intermittent releases)	55,8 mg/l					
Marine water 55,							
Freshwater sediment 284,7 mg/kg							
Marine sedir	nent	284,7 mg/kg					
Micro-organi	isms in sewage treatment plants (STP)	709 mg/l					
Soil		22,5 mg/kg					

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Tightly sealed safety glasses. EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. In case of prolonged or frequently repeated skin contact: Tested protective gloves are to be worn: Suitable material:

Butyl rubber. (0,7 mm, Breakthrough time >=480 min, penetration time (maximum wearing period): 160 min): NBR (Nitrile rubber). (0,4 mm, Breakthrough time >=120 min, penetration time (maximum wearing period): 40



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 7 of 15

min)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing Protective clothing. (fire retardant.) Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Insufficient ventilation.

exceeding exposure limit values

generation/formation of aerosols

Suitable respiratory protective equipment:

gas filtering equipment (EN 141). Type : a

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

The wearing time limitations according to GefStoffV in conjunction with the rules for the use of respiratory protective devices (BGR 190) must be observed.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
Odour:	alcoholic	
Melting point/freezing point:		-114 °C
Boiling point or initial boiling point and		78 °C
boiling range:		
Flammability:		No data available
Lower explosion limits:		2,5 vol. %
Upper explosion limits:		15 vol. %
Flash point:		12 °C
Auto-ignition temperature:		400 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		1000 g/L
(at 20 °C)		
Vapour pressure:		58 hPa
(at 20 °C)		
Density (at 20 °C):		0,79 g/cm³
2 Other information		

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 8 of 15

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent Alkali metals. Aluminium. Nitric acid. Sulphuric acid. Nitric oxides. Hydrogen peroxide. Barium perchlorate. Lead chlorate. Lead perchlorate. Chromosulphuric acid. Dichlorohexoxide. Magnesium powder. Sodium hypochlorite. Perchloric acid. Permanganic acid. Zinc diethyl.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Keep away from heat. Protect from direct sunlight. Protect from moisture. In use may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Formation of carbon dioxide Carbon monoxide

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) 50000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 1100 mg/l; ATE (inhalation dust/mist) 150,0 mg/l



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 9 of 15

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
64-17-5	ethanol			÷	· · ·			
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier			
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier			
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	ECHA Dossier			
67-63-0	2-propanol							
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier			
	dermal	LD50 mg/kg	>5000	Rabbit	ECHA Dossier			
78-93-3	butanone							
	oral	LD50 mg/kg	2054	Ratte	SDB Lieferant			
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier			
3734-33-6	Denatoniumbenzoate							
	oral	ATE mg/kg	500					
	dermal	LD50 mg/kg	>2000	Rat	suppliers SDS.			
	inhalation vapour	ATE	11 mg/l					
	inhalation dust/mist	ATE	1,5 mg/l					

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 10 of 15

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
64-17-5	ethanol								
	Acute fish toxicity	LC50 mg/l	14200	96 h	Pimephales promelas (fathead minnow)	ECHA Dossier			
	Acute algae toxicity	ErC50	275 mg/l	72 h	Chlorella vulgaris	ECHA Dossier			
	Acute crustacea toxicity	EC50 mg/l	5012	48 h	Ceriodaphnia dubia (water flea)	ECHA Dossier			
	Crustacea toxicity	NOEC	9,6 mg/l	9 d	Daphnia magna	ECHA Dossier			
67-63-0	2-propanol								
	Acute fish toxicity	LC50 mg/l	9640	96 h	Pimephales promelas	ECHA Dossier	OECD Guideline 203		
	Acute algae toxicity	ErC50 mg/l	1800	96 h	Scenedesmus quadricauda	ECHA Dossier			
	Acute crustacea toxicity	EC50 mg/l	>10000	48 h	Daphnia magna (24h)	ECHA Dossier	OECD Guideline 202		
78-93-3	butanone								
	Acute fish toxicity	LC50 mg/l	2993	96 h	Pimephales promelas	ECHA Dossier	OECD 203		
	Acute algae toxicity	ErC50 mg/l	1972	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	OECD 201		
	Acute crustacea toxicity	EC50	308 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD 202		
3734-33-6	Denatoniumbenzoate								
	Acute fish toxicity	LC50 mg/l	>1000	96 h	Oncorhynchus mykiss (Rainbow trout)	suppliers SDS.			
	Acute crustacea toxicity	EC50	13 mg/l		Daphnia magna (Big water flea)	suppliers SDS.			

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation		-		
64-17-5	ethanol				
	other guideline	84%	20	ECHA Dossier	
	Biodegradable.				
67-63-0	2-propanol				
	EU Method C.5/ EU Method C.6	53%	5	ECHA Dossier	
	Easily biodegradable (concerning to the criteria of the OECD)				
78-93-3	butanone				
		98%	28	ECHA Dossier	
	Readily biodegradable (according to OECD criteria).				

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol	-0,31
67-63-0	2-propanol	0,05
78-93-3	butanone	0,3



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 11 of 15

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

The product has not been tested.

Further information

Avoid release to the environment. Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1170
14.2. UN proper shipping name:	ETHANOL
14.3. Transport hazard class(es):	3
14.4. Packing group:	11
Hazard label:	3
Classification code:	F1
Special Provisions:	144 601
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1170
14.2. UN proper shipping name:	ETHANOL
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
	-

according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX) Revision date: 27.03.2024 Product code: 11067.xxxxx Page 12 of 15			
Classification code: Special Provisions: Limited quantity: Excepted quantity:	F1 144 601 1 L E2		
Marine transport (IMDG) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1170 ETHANOL 3 II 3		
Special Provisions: Limited quantity: Excepted quantity: EmS:	3 144 1 L E2 F-E, S-D		
Air transport (ICAO-TI/IATA-DGR) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1170 ETHANOL 3 II 3		
Special Provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity: IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	3 A3 A58 A180 1 L Y341 E2 353 5 L 364 60 L		
14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS:	No		
14.6. Special precautions for user Warning: Combustible liquid. Refer to 14.7. Maritime transport in bulk according to No information available. Other applicable information No information available.	section 6-8		
No information available. SECTION 15: Regulatory information			

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

EU regulatory information



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)		
Revision date: 27.03.2024	Product code: 11067.xxxxx	Page 13 of 15
Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 75		
Directive 2010/75/EU on industrial emissions:	100 %	
Directive 2004/42/EC on VOC in paints and varnishes:	100 %	
Information according to Directive 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS	
Additional information		
This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].		
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juv work protection guideline' (94/33/EC).	venile
Water hazard class (D):	1 - slightly hazardous to water	
15.2. Chemical safety assessment		
For the following substances of this mi ethanol 2-propanol butanone	xture a chemical safety assessment has been carried out:	
SECTION 16: Other information		

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,5,6,8,9,10,11,14,15,16. Rev. 1,0; 16.05.2023; Recreation from collect_SDB 11067 Rev. 1,1; 27.03.2024; general adjustment(s)



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 14 of 15

Abbreviations and acronyms

Flam. Liq: Flammable liquids Acute Tox: Acute toxicity Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation STOT SE: Specific target organ toxicity - single exposure Aquatic Chronic: Chronic aquatic hazard ADR: Accord européen sur le transport des marchandises dangereuses par Route AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen AGW: Arbeitsplatzgrenzwert AVV: Abfallverzeichnisverordnung CAS Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures DNEL: Derived No Effect Level d: dav(s) EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European LIst of Notified Chemical Substances ECHA: European Chemicals Agency EWC: European Waste Catalogue IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) h: hour LOAEL: Lowest observed adverse effect level LOAFC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOAEL: No observed adverse effect level NOAEC: No observed adverse effect level NLP: No-Longer Polymers N/A: not applicable OECD: Organisation for Economic Co-operation and Development PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) REACH: Registration, Evaluation, Authorisation of Chemicals SVHC: substance of very high concern TRGS Technische Regeln fuer Gefahrstoffe UN: United Nations VOC: Volatile Organic Compounds VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe WGK: Wassergefaehrdungsklasse CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level



according to UK REACH Regulation

Ethanol 99 %, denatured (MEK/IPA/BTX)

Revision date: 27.03.2024

Product code: 11067.xxxxx

Page 15 of 15

DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: verv persistent, verv bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail 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) EmS: Emergency Schedules MFAG: Medical First Aid Guide MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container For abbreviations and acronyms, see table at http://abbrev.esdscom.eu Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method

Relevant H and EUH statements (number and full text)

e	levalle n allu EUN stat	
	H225	Highly flammable liquid and vapour.
	H302	Harmful if swallowed.
	H315	Causes skin irritation.
	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H336	May cause drowsiness or dizziness.
	H412	Harmful to aquatic life with long lasting effects.
	EUH066	Repeated exposure may cause skin dryness or cracking.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Classification according to Regulation (EC) No 1272/2008 [CLP]

- Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)