

according to Regulation (EC) No 1907/2006

## **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 1 of 16

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

### 1.1. Product identifier

Ethanol-methanol blends

#### Further trade names

This MSDS covers the following products in all container sizes:

- REF 13506.xxxxx Ethanol 99 %, vergällt mit 1 % MEK & 5 % Methanol
- REF 14000.xxxxx Formalinfreies Fixativ F13

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

#### Use of the substance/mixture

Industrial use

### Uses advised against

Any non-intended use.

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

Company name: MORPHISTO GmbH Street: Weismüllerstr. 45

Place: D-60314 Frankfurt am Main

Telephone: +49 (0) 69 / 400 3019-60 Telefax: +49 (0) 69 / 400 3019-64 e-mail: Telefax: +49 (0) 69 / 400 3019-64

e-mail: info@morphisto.de
Internet: http://www.morphisto.de

1.4. Emergency telephone Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

number:

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2 Acute toxicity: Acute Tox. 4 Acute toxicity: Acute Tox. 4 Acute toxicity: Acute Tox. 4

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 1

Hazard Statements:

Highly flammable liquid and vapour.

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

Causes serious eye irritation. Causes damage to organs.

#### 2.2. Label elements

## Regulation (EC) No. 1272/2008

# Hazard components for labelling

methanol

Signal word: Danger

Pictograms:









according to Regulation (EC) No 1907/2006

### **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 2 of 16

#### Hazard statements

H225 Highly flammable liquid and vapour.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H319 Causes serious eye irritation. H370 Causes damage to organs.

### **Precautionary statements**

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

smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P321 Specific treatment (see ... on this label).
P370+P378 In case of fire: Use ... to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.

### 2.3. Other hazards

@1501.B015511

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

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

### 3.2. Mixtures

## **Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification	•	•	
64-17-5	ethanol, ethyl alcohol			75 - < 80 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H	1319	•	
67-56-1	methanol			20 - < 25 %
	200-659-6	603-001-00-X		
	Flam. Liq. 2, Acute Tox. 3, Acute	e Tox. 3, Acute Tox. 3, STOT	SE 1; H225 H331 H311 H301 H370	
78-93-3	butanone; ethyl methyl ketone			< 1 %
	201-159-0	606-002-00-3	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT	SE 3; H225 H319 H336 EUH	066	

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

## **Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

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

## 4.1. Description of first aid measures

### **General information**

Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

First aider: Pay attention to self-protection!

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice. Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.



according to Regulation (EC) No 1907/2006

#### **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 3 of 16

#### After contact with skin

Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary. Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically. Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

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

In case of major fire and large quantities: Atomized water.

## Unsuitable extinguishing media

High power water jet.

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

Highly flammable. Vapours can form explosive mixtures with air. Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO2).

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breath fumes.

#### Additional information

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

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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

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

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Remove persons to safety. Remove all sources of ignition. Ventilate affected area.

@1501.B015720 Avoid contact with skin, eyes and clothes.

Wear personal protection equipment. (See section 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. @1001.B010071! Cover drains. 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.



according to Regulation (EC) No 1907/2006

#### **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 4 of 16

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

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

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8 Disposal: see section 13 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 safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations. @1501.B015720 Avoid contact with skin, eves and clothes.

Wear suitable protective clothing. (See section 8.)

### 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. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Flammable vapours can accumulate in head space of closed systems. @1501.B015511 Heating causes rise in pressure with risk of bursting.

#### Further information on handling

General protection and hygiene measures: See section 8.

### 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 container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

Ensure adequate ventilation of the storage area.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

### 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

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.

Protect against: UV-radiation/sunlight. heat. Humidity frost.

storage temperature: 15-25°C

#### 7.3. Specific end use(s)

See section 1.

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

# 8.1. Control parameters



according to Regulation (EC) No 1907/2006

## **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 5 of 16

## **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
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	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, ethyl alcohol			
Worker DNE	L, acute	inhalation	local	1900 mg/m³
Worker DNE	L, long-term	dermal	systemic	343 mg/kg bw/day
Worker DNE	L, long-term	inhalation	systemic	950 mg/m³
Consumer D	NEL, acute	inhalation	local	950 mg/m³
Consumer D	NEL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer D	NEL, long-term	inhalation	systemic	114 mg/m³
Consumer D	NEL, long-term	oral	systemic	87 mg/kg bw/day
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
Worker DNE	L, long-term	inhalation	systemic	500 mg/m³
Consumer DNEL, long-term		inhalation	systemic	89 mg/m³
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day
Consumer D	NEL, long-term	dermal	systemic	319 mg/kg bw/day



according to Regulation (EC) No 1907/2006

## **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 6 of 16

#### **PNEC values**

CAS No	Substance	
Environmen	tal compartment	Value
64-17-5	ethanol, ethyl alcohol	
Freshwater		0,96 mg/l
Freshwater	(intermittent releases)	2,75 mg/l
Marine wate	er	0,79 mg/l
Marine wate	er (intermittent releases)	2,75 mg/l
Freshwater	sediment	3,6 mg/kg
Marine sedi	ment	2,9 mg/kg
Secondary poisoning		0,72 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	580 mg/l
Soil		0,63 mg/kg
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	
Freshwater		140,9 mg/l
Marine wate	er	140,9 mg/l
Freshwater sediment		552 mg/kg
Marine sediment		552 mg/kg
Secondary p	poisoning	160 mg/kg
Soil		28 mg/kg

### 8.2. Exposure controls











## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. The usual precautions for handling chemicals should be considered. @1501.B015704

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

## Eye/face protection

Suitable eye protection: goggles. Recommended eye protection brand: Tightly sealed safety glasses. (DIN 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:

Wear suitable gloves.

Suitable material:



according to Regulation (EC) No 1907/2006

### **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 7 of 16

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time >= 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time >= 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time >= 8 h

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 . Wear fire resistant or flame retardant clothing.

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:

Generation/formation of aerosols

exceeding exposure limit values

Insufficient ventilation.

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3

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.

# **Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

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

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

Physical state: liquid.

Colour: not determined Characteristic

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Flash point:

not applicable
not determined

0-<21 °C

Flammability

Solid: not applicable
Gas: not applicable

**Explosive properties** 

The product is not: Explosive. @1501.B015511

Lower explosion limits: not determined Upper explosion limits: not determined



according to Regulation (EC) No 1907/2006

### **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 8 of 16

Ignition temperature: not determined

**Auto-ignition temperature** 

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties** 

none.

Vapour pressure: not determined

(at 20 °C)

Density: not determined Water solubility: miscible.

Solubility in other solvents

not determined

Partition coefficient: not determined
Viscosity / dynamic: not determined

(at 40 °C)

Viscosity / kinematic: not determined

(at 20 °C)

Flow time: not determined Vapour density: not determined Evaporation rate: not determined Solvent separation test: not determined Solvent content: not determined

9.2. Other information

Solid content: not determined

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Highly flammable. No information available.

#### 10.2. Chemical stability

@1002.B100142

## 10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

## 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. @1001.B010077!

In use may form flammable/explosive vapour-air mixture.

Heating causes rise in pressure with risk of bursting.

### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

## 10.6. Hazardous decomposition products

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO2).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects



according to Regulation (EC) No 1907/2006

## **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 9 of 16

## Toxicocinetics, metabolism and distribution

@1718.B017281.

#### **Acute toxicity**

Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

### **ATEmix** calculated

ATE (oral) 500,0 mg/kg; ATE (dermal) 1500,0 mg/kg; ATE (inhalation vapour) 15,00 mg/l; ATE (inhalation aerosol) 2,500 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
64-17-5	ethanol, ethyl alcohol					
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier	
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	ECHA Dossier	
67-56-1	methanol					
	oral	ATE mg/kg	100			
	dermal	ATE mg/kg	300			
	inhalation vapour	ATE	3 mg/l			
	inhalation aerosol	ATE	0,5 mg/l			
78-93-3	butanone; ethyl methyl k	etone				
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier	

## 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.

Ethanol:

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

Reproductive toxicity:
Exposure time: 18 weeks
Species: CD-1 Mouse.
Method: OECD Guideline 416
Result: NOAEL = 20700 mg/kg/day
Developmental toxicity/teratogenicity:

Exposure time: 19d

Species: Sprague-Dawley Rat. Method: OECD Guideline 414

Result: NOAEL = 16000 ppm (maternal toxicity)
Result: NOAEL >= 20000 ppm (teratogenicity)

Literature information: ECHA Dossier

## STOT-single exposure

Causes damage to organs. (methanol)



according to Regulation (EC) No 1907/2006

## **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 10 of 16

## STOT-repeated exposure

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

Ethanol:

Subchronic oral toxicity

Exposure time: 90d; Species: Sprague-Dawley Rat.

Method: OECD Guideline 408; Result: NOAEL = 1280 mg/kg; Literature information: ECHA Dossier

## **Aspiration hazard**

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

### Specific effects in experiment on an animal

@1718.B017281.

### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
64-17-5	ethanol, ethyl alcohol							
	Acute fish toxicity	LC50 mg/l	14200	96 h	Pimephales promelas	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	ECHA Dossier		
	Crustacea toxicity	NOEC	9,6 mg/l	9 d	Daphnia magna	ECHA Dossier		
67-56-1	methanol							
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	ECHA Dossier		
	Acute algae toxicity	ErC50 mg/l	22000	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	> 10000	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	DIN 38412 Teil 11	
78-93-3	butanone; ethyl methyl ke	tone						
	Acute fish toxicity	LC50 mg/l	1656	96 h	Pimephales promelas	ECHA Dossier		
	Acute algae toxicity	ErC50 mg/l	1982	72 h	Pseudokirchnerella subcapitata	ECHA Dossier		
	Acute crustacea toxicity	EC50	308 mg/l	48 h	Daphnia magna	ECHA Dossier		

## 12.2. Persistence and degradability

The product has not been tested.



according to Regulation (EC) No 1907/2006

### **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 11 of 16

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation	-	-	-	
64-17-5	ethanol, ethyl alcohol				
	other guideline	84%	20	ECHA Dossier	
	Biodegradable.				
67-56-1	methanol				
	other guideline	76%	20	ECHA Dossier	
	Easily biodegradable (concerning to the criteria of the OECD)				
78-93-3	butanone; ethyl methyl ketone				
	@1203.B120931	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, ethyl alcohol	-0,31
67-56-1	methanol	-0,77
78-93-3	butanone; ethyl methyl ketone	0,3

#### **BCF**

CAS No	Chemical name	BCF	Species	Source
67-56-1	methanol	1	Cyprinus carpio	Comparative Biochemi

## 12.4. Mobility in soil

@1718.B017281.

## 12.5. Results of PBT and vPvB assessment

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

## 12.6. Other adverse effects

@1718.B017281.

### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. 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. Do not allow to enter into soil/subsoil. 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:

### List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

### List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste



according to Regulation (EC) No 1907/2006

### **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 12 of 16

### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

#### Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

**14.1. UN number:** UN 1987

14.2. UN proper shipping name: ALCOHOLS, N.O.S. (ethanol, ethyl alcohol, methanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640D

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:** UN 1987

**14.2. UN proper shipping name:** ALCOHOLS, N.O.S. (ethanol, ethyl alcohol, methanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640D

Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

**14.1. UN number:** UN 1987

14.2. UN proper shipping name: ALCOHOLS, N.O.S. (ethanol, ethyl alcohol, methanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



according to Regulation (EC) No 1907/2006

## **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 13 of 16



Marine pollutant:

Special Provisions:

Limited quantity:

Excepted quantity:

E2

EmS:

NO

274

1 L

E2

E75-D

## Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1987

**14.2. UN proper shipping name:** ALCOHOLS, N.O.S. (ethanol, ethyl alcohol, methanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A180

1 L

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

## 14.6. Special precautions for user

Warning: Combustible liquid. See section 8.

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant.

## **SECTION 15: Regulatory information**

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

### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 69: methanol

2010/75/EU (VOC): 99,992 % 2004/42/EC (VOC): 99,992 %

Information according to 2012/18/EU H3 STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

(SEVESO III):

Additional information: P5c

#### **Additional information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No (mixture): 3, 40

## National regulatory information





according to Regulation (EC) No 1907/2006

**Ethanol-methanol blends** 

Revision date: 16.01.2020 Product code: 13506\_collect Page 14 of 16

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Permeates easily through outer skin and causes poisoning.

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Changes

Rev. 1.00; 01.09.2017 Initial release

#### Abbreviations and acronyms

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: day(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

LOAEC: 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



according to Regulation (EC) No 1907/2006

#### **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 15 of 16

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
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 NOFC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very 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 Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H312	Calculation method
Acute Tox. 4; H332	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT SE 1; H370	Calculation method

### Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed. H302 Harmful if swallowed.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H311 Toxic in contact with skin.
 H312 Harmful in contact with skin.
 H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H370 Causes damage to organs.

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





according to Regulation (EC) No 1907/2006

## **Ethanol-methanol blends**

Revision date: 16.01.2020 Product code: 13506\_collect Page 16 of 16

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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)