

# SAFETY DATA SHEET

according to Regulation No. 1907/2006 (REACH) and  
Commission Regulation (EU) 2020/878

Version: 1.0  
Issue date: 2021-11-29

## Winter washer fluid -20 °C

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

#### 1.1 Product identifier

Chemical name/ trade name: **Winter washer fluid -20 °C**

Producer: **OMA CZ, a.s.**  
Address: **Stráž pod Ralskem, 47127, Borová 103**

Distributor: **OMA CZ Slovakia s.r.o.**  
Address: **Bratislava, 81104, Boženy Nemcovej 8**

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

Intended use: Mixture for car washers.

Uses advised against: Other than the above mentioned.

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

Supplier of SDS: OMA CZ Slovakia s.r.o.  
Address: Bratislava, 81104, Boženy Nemcovej 8  
Identification No.: 50299964  
Tel: +421903714919  
www: www.omacz.sk  
Responsible person for this SDS: OMA CZ, a.s., laborator@omacz.cz

#### 1.4 Emergency telephone number

**National Poisons Information Service (NPIS), Royal Infirmary of Edinburgh, Edinburgh  
EH16 4SA, United Kingdom, Tel.: +44 121 507 4123, 844 892 0111**

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to the EC Regulation No. 1272/2008 (CLP):

Flammable liquids, category 3, H226 Flammable liquid and vapour.  
EUH066 Repeated exposure may cause skin dryness or cracking.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]:

Hazard pictogram(s):



Signal word(s): WARNING

Contain: Ethanol, Butanone, Alcohols, C12-15, ethoxylated, Ethane-1,2-diol, Isopentyl acetate

Hazard statement(s): H226 Flammable liquid and vapour.

Precautionary statement(s):  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking  
P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P370/378 In case of fire: Use water / foam / powder / CO2 to extinguish.  
P403/235 Store in a well ventilated place. Keep cool.  
P501 Dispose of contents / container as hazardous waste.

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Supplemental information: EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

This mixture does not contain any substances which are classified as PBT or vPvB  
This product does not contain SVHC.  
This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Name of the component	Content (weight %)	CAS EINECS Index N° Reg. Number	Classification according to Regulation (EC) No 1278/2008 (CLP)	
Ethanol	30-35	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Eye Irrit. 2 SCL: C ≥ 50% Flam. Liq. 2	H319 H225
Butanone *	< 1,5	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	Eye Irrit. 2 Flam. Liq. 2 STOT SE 3	H319 H225 H336 EUH066
Alcohols, C12-15, ethoxylated	< 0,5	68131-39-5 500-195-7 - 01-2119488720-33	Aquatic Acute 1 Eye Dam. 1	H400 H318
Ethane-1,2-diol *	< 0,1	107-21-1 203-473-3 603-027-00-1 01-2119456816-28	Acute Tox. 4 STOT RE 2	H302 H373
Isopentyl acetate *	< 0,02	123-92-2 204-662-3 607-130-00-2 01-2119548408-32	Aquatic Chronic 3 Flam. Liq. 3 Note C	H412 H226

*Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.*

\* Substance with a Community workplace exposure limit.

For full text of H-statements see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice:

In any case, avoid chaotic action. When medical treatment is required, always take the original package with the label or safety data sheet. For life-threatening conditions, first resuscitate the sufferer and obtain medical assistance. Breathing arrest - perform CPR immediately. Cardiac arrest - perform indirect CPR immediately. Unconscious - place the sufferer in a stable position on the side. It is always necessary to assess the situation in the light of the individual's own safety and that of the person affected. When handling stained clothing or other items must be protected by appropriate personal protective equipment, including gloves. First aid should not be given at the place where the accident took place, if there is a danger of contamination by the rescuer.

Inhalation: Move affected person to fresh air, keep him calm, prevent hypothermia.

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Skin contact:	Take off all contaminated clothing. Wash thoroughly with soap and water and treat with a suitable cream. In case of inadequate washing, further irritation may occur.
Eye contact:	Immediately rinse eyes with running water, open eyelids. If the contact lenses are used, remove them carefully and continue to rinse, the affected eye wide open from the inner corner to the outer, so that the second eye is not affected and also under the lids for at least 15 minutes. If symptoms persist, seek medical advice.
Ingestion:	Rinse mouth with water, do not induce vomiting. Do not give anything by mouth to an unconscious person; Place the person in a stabilized position and seek immediate medical attention.
Protection of first aiders:	Pay attention to personal safety during rescue work.

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

No data available.

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

Decontamination. Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: Water mist, powder, Alcohol resistant foam, CO<sub>2</sub>.  
Unsuitable extinguishing media: Strong water jet - could cause fire to spread.

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

Combustion products and hazardous gases: smoke, carbon monoxide, carbon dioxide.

### 5.3 Advice for firefighters

Rescue teams exposed to smoke or gases must be equipped with means for eye and respiratory protection, protective clothing. In confined spaces it is necessary to use a breathing apparatus. Containers exposed to fire cool with water mist. Do not spray water directly into the container to prevent excessive foaming. Collect extinguishing water separately, and avoid its penetration into the soil and water.

## SECTION 6: Accidental release measures

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

Prevent contamination of clothing and footwear by product and contact with skin and eyes. Wear suitable protective clothing, replace contaminated clothing. Ensure ventilation of the affected area. All persons not participating in rescue work should be taken to a safe distance.

### 6.2 Environmental precautions

Avoid leakage into the environment, soil, avoid ingress into surface water and sewers. In case of leakage, inform the water / sewer manager and the relevant authorities immediately.

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

In case of leakage, locate and, if possible, drain or mechanically remove product, withdraw from the surface of the water. Allow residuals or smaller amounts to be absorbed in a suitable sorbent (kieselguhr, sand) and placed it in suitable and labelled containers and handed over to recycling / disposal of in accordance with applicable regulations.

### 6.4 Reference to other sections

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See section 7, 8 a 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Use appropriate PPE. Use only in well-ventilated areas with fresh air supply. Do not eat, drink, smoke. Wash your hands after work. Do not inhale vapours. Comply with regulations on health and safety at work. All fire precautions must be observed during handling.

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

Store in a vertical position to prevent leakage. Store in original packaging, in dry, well-ventilated, cool place. Do not store together with strong oxidising agents. Do not store together with food, beverage and medicines.

#### 7.3 Specific end use(s)

see section 1.2

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Exposure limits: According to national legislation of target country.

Substance	CAS	Permissible exposure limits (mg/m <sup>3</sup> )	Maximum permissible concentration (mg/m <sup>3</sup> )	Note
2-methylpropan-2-ol	75-65-0	308	462	
Butanone	78-93-3	600	900	
Ethanol	64-17-5	1920	-	
Ethane-1,2-diol	107-21-1	10 particulate. 52 vapour	- particulate. 104 vapour	
Isopentyl acetate	123-92-2	270	541	
Propan-2-ol	67-63-0	999	1250	

Substances with Community Exposure Limits: Union occupational exposure limit values in accordance with Directive 2000/39/EC (as amended).

Substance	CAS	Limit values		Note
		OEL (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	
Butanone	78-93-3	600	900	
Ethylene glycol	107-21-1	52	104	Dermal
Isopentylacetate	123-92-2	270	540	

#### DNEL:

#### Ethanol (CAS: 64-17-5)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
<b>Workers</b>				
Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	950

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Dermal	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	343
<b>Consumers</b>				
Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	114
Dermal	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	206
Oral	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	87

## Butanone (CAS: 78-93-3)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
<b>Workers</b>				
Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	600
Dermal	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	1 161
<b>Consumers</b>				
Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	106
Dermal	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	412
Oral	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	31

## Alcohols, C12-15, ethoxylated (CAS: 68131-39-5)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
<b>Workers</b>				
Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	294
Dermal	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	2 080
<b>Consumers</b>				
Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	87
Dermal	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	1 250
Oral	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	25

## Ethane-1,2-diol (CAS: 107-21-1)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
<b>Workers</b>				
Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	-
		local	mg/m <sup>3</sup>	35
Dermal	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	106
<b>Consumers</b>				
Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	-
		local	mg/m <sup>3</sup>	7
Dermal	Long-term (chronic)	systemic	mg/kg <sub>bw/d</sub>	53

PNEC:

## Ethanol (CAS: 64-17-5)

Component of the environment	PNEC	Unit	Value

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Water environment	Freshwater	PNEC <sub>water, fresh.</sub>	mg/L	0.96
	Freshwater, occasional leakage	PNEC <sub>water, fresh.</sub>	mg/L	2.75
	Freshwater sediment	PNEC <sub>sed., fresh.</sub>	mg/kg sediment dw	3.6
	Seawater	PNEC <sub>water, mar.</sub>	mg/L	0.79
	Marine sediment	PNEC <sub>sed., mar.</sub>	mg/kg sediment dw	2.9
Microbiological activity	Wastewater treatment plant	PNEC <sub>sew. treat.</sub>	mg/L	580
Terrestrial environment / organisms	Soil	PNEC <sub>soil</sub>	mg/kg soil dw	0.63
Food chain	Predators	PNEC <sub>oral.</sub>	mg/kg food	380

### Butanone (CAS: 78-93-3)

Component of the environment		PNEC	Unit	Value
Water environment	Freshwater	PNEC <sub>water, fresh.</sub>	mg/L	55.8
	Freshwater, occasional leakage	PNEC <sub>water, fresh.</sub>	mg/L	55.8
	Freshwater sediment	PNEC <sub>sed., fresh.</sub>	mg/kg sediment dw	284.74
	Seawater	PNEC <sub>water, mar.</sub>	mg/L	55.8
	Marine sediment	PNEC <sub>sed., mar.</sub>	mg/kg sediment dw	284.7
Microbiological activity	Wastewater treatment plant	PNEC <sub>sew. treat.</sub>	mg/L	709
Terrestrial environment / organisms	Soil	PNEC <sub>soil</sub>	mg/kg soil dw	22.5
Food chain	Predators	PNEC <sub>oral.</sub>	mg/kg food	1 000

### Alcohols, C12-15, ethoxylated (CAS: 68131-39-5)

Component of the environment		PNEC	Unit	Value
Water environment	Freshwater	PNEC <sub>water, fresh.</sub>	mg/L	0.051
	Freshwater, occasional leakage	PNEC <sub>water, fresh.</sub>	mg/L	0.001
	Freshwater sediment	PNEC <sub>sed., fresh.</sub>	mg/kg sediment dw	81.64
	Seawater	PNEC <sub>water, mar.</sub>	mg/L	0.005
	Marine sediment	PNEC <sub>sed., mar.</sub>	mg/kg sediment dw	8.16
Microbiological activity	Wastewater treatment plant	PNEC <sub>sew. treat.</sub>		10 g/L
Terrestrial environment / organisms	Soil	PNEC <sub>soil</sub>	mg/kg soil dw	1

### Ethane-1,2-diol (CAS: 107-21-1)

Component of the environment		PNEC	Unit	Value
Water environment	Freshwater	PNEC <sub>water, fresh.</sub>	mg/L	10
	Freshwater, occasional leakage	PNEC <sub>water, fresh.</sub>	mg/L	10
	Freshwater sediment	PNEC <sub>sed., fresh.</sub>	mg/kg sediment dw	37
	Seawater	PNEC <sub>water, mar.</sub>	mg/L	1
	Marine sediment	PNEC <sub>sed., mar.</sub>	mg/kg sediment dw	3.7
Microbiological activity	Wastewater treatment plant	PNEC <sub>sew. treat.</sub>	mg/L	199.5
Terrestrial environment / organisms	Soil	PNEC <sub>soil</sub>	mg/kg soil dw	1.53

### Isopentyl acetate (CAS: 123-92-2)

Component of the environment		PNEC	Unit	Value
Water environment	Freshwater	PNEC <sub>water, fresh.</sub>	mg/L	0.011
	Freshwater, occasional leakage	PNEC <sub>water, fresh.</sub>	mg/L	0.11
	Freshwater sediment	PNEC <sub>sed., fresh.</sub>	mg/kg sediment dw	0.335

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	Seawater	PNEC <sub>water, mar.</sub>	mg/L	0.001
	Marine sediment	PNEC <sub>sed., mar.</sub>	mg/kg <sub>sediment dw</sub>	0.034
<b>Microbiological activity</b>	Wastewater treatment plant	PNEC <sub>sew. treat.</sub>	mg/L	30
<b>Terrestrial environment / organisms</b>	Soil	PNEC <sub>soil</sub>	mg/kg <sub>soil dw</sub>	0.06

### 8.2 Exposure controls

Technical measures:

Technical measures and appropriate work procedures take precedence over personal protective equipment. Observe the usual hygiene principles. Do not eat, drink, smoke. Before breaks and after work wash your hands with warm water and soap.

#### Individual protection measures

Respiratory protection:

If the exposure limits are exceeded, for mist / dust / vapour / aerosol formation use mask with A/P filter according to EN 14387.

Hand protection:

Protective gloves resistant to chemicals according to EN 374. Protective gloves should in any case be tested for the specific suitability of their use at the workplace (e.g. their mechanical resistance, product compatibility and antistatic properties). Observe the manufacturer's exact instructions, including the time of use. Replace damaged gloves.

Eye / face protection:

Wear safety glasses with side shields or face shield according to EN 166.

Skin protection:

Working clothes (EN 340) and footwear (EN 347).

Thermal hazards:

No data available.

Environmental exposure controls:

Avoid unnecessary releases into the environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Blue
Odour:	according to perfume
Odour threshold:	not determined
pH :	7 - 8
Melting point / freezing point (°C):	not determined
Boiling point or initial boiling point and boiling range (°C):	90
Flash point (°C):	28
Evaporation rate:	not determined
Flammability (gases, liquids and solids):	not determined
Lower and upper explosion limit:	not determined
Vapour pressure (20 °C):	not determined
Vapour pressure (50 °C):	not determined
Relative vapour density:	not determined
Density and/or relative density (g/cm <sup>3</sup> , 20 °C):	0.96
Solubility (20 °C):	Soluble
Partition coefficient n-octanol/water (log value):	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
Kinematic viscosity:	No data available.
Refractive index (20 °C):	not determined
Oxidising properties:	not determined
Explosive properties:	not determined

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### 9.2 Other information

VOC (%): No data available.  
Dry matter content: not determined  
Additional information: no other information

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

Flammable liquids Flammable liquids, category 3, H226 Flammable liquid and vapour.

#### 9.2.2 Other safety characteristics:

mechanical sensitivity: No data available.  
self-accelerating polymerisation temperature: No data available.  
formation of explosible dust/air mixtures: No data available.  
acid/alkaline reserve: No data available.  
evaporation rate: No data available.  
miscibility: No data available.  
conductivity: No data available.  
corrosiveness: No data available.  
gas group: No data available.  
redox potential: No data available.  
radical formation potential: No data available.  
photocatalytic properties: No data available.

## SECTION 10: Stability and reactivity

- 10.1 Reactivity** The product is stable at the specified conditions of storage, handling and use.
- 10.2 Chemical stability** The product is stable at the specified conditions of storage, handling and use.
- 10.3 Possibility of hazardous reactions** With proper use, there is no hazardous reactions.
- 10.4 Conditions to avoid** They are not subject to prescribed use and storage.
- 10.5 Incompatible materials** Strong oxidizing agents, strong acids, strong alkalines.
- 10.6 Hazardous decomposition products** Hazardous decomposition products are not known.

## SECTION 11: Toxicological information

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

#### Individual components

#### Ethanol (CAS: 64-17-5)

Acute toxicity:

Test type	Results	Exposure	Tested organisms
OECD 401, key study	10 470 mg/kg bw, LD50	oral: unspecified	rat
supporting study	17 100 mg/kg bw, LD50	dermal	rabbit
OECD 403, key study	124.7 mg/L air 116.9 mg/L air 133.8 mg/L air	inhalation: vapour	rat

Serious eye damage / irritation:



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Test type	Results	Exposure	Tested organisms
OECD 405, key study	Category 2A (irritating to eyes)	Eye	rabbit

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
OECD 404, key study	not irritating	Skin	rabbit

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
OECD 406, key study	not sensitising	Skin	guinea pig

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		

STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
OECD 408, key study	1 730 mg/kg bw/day (actual dose received), NOAEL 3 200 mg/kg bw/day (actual dose received), LOAEL	oral	rat
weight of evidence	0.013 mg/L air (nominal), NOAEC 0.13 mg/L air (nominal), LOAEC	inhalation	monkey

Carcinogenicity:

Test type	Results	Exposure	Tested organisms
supporting study	466 - 529 mg/kg bw/day, NOAEL 1 872 - 2 101 , LOAEL	oral: drinking water	rat
OECD 453, key study	>= 1.3 mg/L air, NOAEC	inhalation: vapour	mouse

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
OECD 478, key study	ambiguous	oral: gavage	mouse
weight of evidence	negative	inhalation: vapour	mouse

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
OECD 416, key study	15 % in drinking water, NOAEL	oral: drinking water	mouse

Aspiration hazard:

Test type	Results	Exposure	Tested organisms
	No data available.		

Butanone (CAS: 78-93-3)

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Acute toxicity:

Test type	Results	Exposure	Tested organisms
OECD 423, key study	2 054 mg/kg, LD50 2 328 mg/kg, LD50 2 193 mg/kg, LD50	oral: gavage	rat
OECD 402, key study	> 10 mL/kg bw, LD50	dermal	rabbit

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
OECD 405, key study	Category 2 (irritating to eyes) based on GHS criteria	Eye	rabbit

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
OECD 404, key study	GHS criteria not met	Skin	rabbit

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
OECD 406, key study	GHS criteria not met	Skin	guinea pig

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		

STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
OECD 413, key study	5 041 ppm, NOAEC	inhalation	rat

Carcinogenicity:

Test type	Results	Exposure	Tested organisms
	No data available.		

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
OECD 476, key study	negative	In vitro	mouse lymphoma L5178Y cells

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
OECD 416, key study	10 000 mg/L, NOAEL 20 000 mg/L, LOAEL	oral: drinking water	rat

Aspiration hazard:

Test type	Results	Exposure	Tested organisms
	No data available.		

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Acute toxicity:

Test type	Results	Exposure	Tested organisms
OECD 401, key study	> 5 000 mg/kg bw, LD50	oral: gavage	rat
OECD 402, key study	> 2 000 mg/kg bw, LD50	dermal	rat
OECD 403, weight of evidence	> 100 mg/m <sup>3</sup> air, LC50	inhalation: vapour	rat

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
OECD 405, key study	other: CLP/EU GHS criteria not met, no classification required according to Regulation (EC) No. 1272/2008.	Eye	rabbit

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
OECD 404, key study	other: CLP/EU GHS criteria not met, no classification required according to Regulation (EC) No. 1272/2008.	Skin	rabbit

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
OECD 406, key study	other: CLP/EU GHS criteria not met, no classification required according to Regulation (EC) No. 1272/2008.	Skin	guinea pig

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		

STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
OECD 408, key study	500 mg/kg bw/day (nominal), NOAEL	oral	rat

Carcinogenicity:

Test type	Results	Exposure	Tested organisms
	No data available.		

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
OECD 475, weight of evidence	negative	oral: gavage	rat

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
OECD 416, key study	>= 250 mg/kg bw/day, NOAEL 100 mg/kg bw/day, NOEL	dermal	rat

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Aspiration hazard:

Test type	Results	Exposure	Tested organisms
	No data available.		

**Ethane-1,2-diol (CAS: 107-21-1)**

Acute toxicity:

Test type	Results	Exposure	Tested organisms
key study	7 712 mg/kg bw LD50	oral: gavage	rat
key study	> 3 500 mg/kg bw LD50	dermal	mouse
key study	> 2.5 mg/L air	inhalation: aerosol	rat

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
key study	not irritating	Eye	rabbit

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
key study	not irritating	Skin	rabbit

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
weight of evidence	GHS criteria not met	Skin	human

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		

STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
OECD 408, weight of evidence	150 mg/kg bw/day (nominal) NOEL	oral	rat

Carcinogenicity:

Test type	Results	Exposure	Tested organisms
weight of evidence	1 500 mg/kg bw/day NOAEL	oral: feed	mouse

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
key study	ambiguous	In vitro	Chinese hamster Ovary (CHO)

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
weight of evidence	> 1 000 mg/kg bw/day NOAEL	oral: feed	rat

Aspiration hazard:

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Test type	Results	Exposure	Tested organisms
	No data available.		

## Isopentyl acetate (CAS: 123-92-2)

Acute toxicity:

Test type	Results	Exposure	Tested organisms
key study	7 410 mg/kg bw	oral with catheter	rabbit
supporting study	> 5 g/kg	dermal	rabbit
	11 600 mg/m <sup>3</sup> air, LOAEL	inhalation	

Serious eye damage / irritation:

Test type	Results	Exposure	Tested organisms
OECD 405, key study	not irritating	Eye	rabbit

Skin corrosion / irritation:

Test type	Results	Exposure	Tested organisms
OECD 404, key study	not irritating	Skin	rabbit

Respiratory or skin sensitisation:

Test type	Results	Exposure	Tested organisms
OECD 406, key study	not sensitising	Skin	guinea pig

STOT - single exposure:

Test type	Results	Exposure	Tested organisms
	No data available.		

STOT - repeated exposure:

Test type	Results	Exposure	Tested organisms
weight of evidence	250 mg/kg bw/day (actual dose received), NOAEL	oral	rat

Carcinogenicity:

Test type	Results	Exposure	Tested organisms
weight of evidence	23.1 mg/kg bw/day, other:	oral: gavage	rat

Germ cell mutagenicity:

Test type	Results	Exposure	Tested organisms
OECD 474, weight of evidence	negative	oral: gavage	mouse

Reproductive toxicity:

Test type	Results	Exposure	Tested organisms
OECD 443, key study	>= 1 000 mg/kg bw/day (actual dose received), NOAEL	oral: gavage	rat

Aspiration hazard:

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Test type	Results	Exposure	Tested organisms
	No data available.		

### Mixture:

Acute toxicity:	The product does not meet the criteria for classification.
Serious eye damage / irritation:	The product does not meet the criteria for classification.
Skin corrosion / irritation:	The product does not meet the criteria for classification.
Respiratory or skin sensitisation:	The product does not meet the criteria for classification.
STOT - single exposure:	The product does not meet the criteria for classification.
STOT - repeated exposure:	The product does not meet the criteria for classification.
Carcinogenicity:	The product does not meet the criteria for classification.
Germ cell mutagenicity:	The product does not meet the criteria for classification.
Reproductive toxicity:	The product does not meet the criteria for classification.
Aspiration hazard:	The product does not meet the criteria for classification.

### 11.2 Information on other hazards Endocrine disrupting properties

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

Other information: No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

The product does not meet the criteria for classification.

#### Ethanol (CAS: 64-17-5)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Lepomis macrochirus</i>	15 400 mg/L, LC50 / 96 h 12 700 mg/L, EC50 / 96 h	
Acute toxicity to invertebrates	<i>Daphnia magna</i>	> 10 000 mg/L, EC50 / 48 h	
Acute toxicity to aquatic algae	<i>Pseudokirchneriella subcapitata</i>	ca. 22 000 mg/L, EC50 / 96 h	OECD 201

#### Butanone (CAS: 78-93-3)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Pimephales promelas</i>	2 993 mg/L, LC50 / 96 h 1 170 mg/L, NOEC / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Daphnia magna</i>	308 mg/L, EC50 / 48 h	OECD 202
Acute toxicity to aquatic algae	<i>Pseudokirchneriella subcapitata</i>	1 972 mg/L, EC50 / 72 h	OECD 201

#### Alcohols, C12-15, ethoxylated (CAS: 68131-39-5)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Danio rerio</i>	> 2 mg/L, LC50 / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Daphnia magna</i>	0.14 mg/L, EC50 / 48 h	
Acute toxicity to aquatic algae	<i>Pseudokirchneriella subcapitata</i>	> 2 mg/L, EC50 / 72 h	OECD 201

#### Ethane-1,2-diol (CAS: 107-21-1)

Toxicity	Tested organisms	Results	Test type

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Acute toxicity to fish	<i>Pimephales promelas</i>	> 72 860 mg/L LC50 / 96 h	
Acute toxicity to invertebrates	<i>Daphnia magna</i>	> 100 mg/L EC50 / 48 h	OECD 202
Acute toxicity to aquatic algae	<i>Pseudokirchneriella subcapitata</i>	> 100 mg/L NOEC / 72 h	OECD 201

## Isopentyl acetate (CAS: 123-92-2)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Danio rerio</i>	11.1 mg/L, LC50 / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Daphnia magna</i>	47.5 mg/L, EC50 / 24 h 26.3 mg/L, EC50 / 48 h	OECD 202
Acute toxicity to aquatic algae	<i>Desmodesmus subspicatus</i>	> 100 mg/L, other: / 48 h	OECD 201

- 12.2 Persistence and degradability** Toxicological data are not available.
- 12.3 Bioaccumulative potential** Toxicological data are not available.
- 12.4 Mobility in soil** Toxicological data are not available.
- 12.5 Results of PBT and vPvB assessment** This mixture does not contain any substances which are classified as PBT or vPvB
- 12.6 Endocrine disrupting properties** This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.
- 12.7 Other adverse effects** In larger quantities, the mixture is hazardous to water. It does not show under normal handling no anomalies in biological treatment plants.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Catalogue No. of mixture waste: 16 01 14 Antifreeze fluids containing dangerous substances  
Waste codes / waste designations according to LoW: 15 01 10 Packaging containing residues of or contaminated by dangerous substances  
- cleaned packaging 15 01 02 Plastic packaging

Recommended procedure for mixture waste disposal: Remains of the mixture to be collected in labelled containers and handed over to a person authorized to handle hazardous waste. Suitable method of disposal: incineration in hazardous waste incineration plant. If possible, regenerate the product.

Recommended procedure for packaging disposal: Empty containers must be disposed of in accordance with valid waste legislation. After perfect cleaning, the packaging can be used as a secondary raw material for the same purpose. Recommended way of disposing of is recycling, burning in a hazardous waste incinerator or storing hazardous waste.

Physical / chemical properties that may affect waste treatment method: No determined.

Sewage disposal-relevant information: Do not allow to enter into surface water or drains.

Other disposal recommendations: Dispose of waste according to applicable legislation.


## SECTION 14: Transport information

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	Type of transport	Land transport ADR / RID	Sea transport IMDG	Air Transport ICAO / IATA
14.1	UN number or ID number	1987	1987	1987
14.2	UN proper shipping name	ALCOHOLS, N.O.S. (Ethanol, Butanone, Propan-2-ol, Isopentyl acetate, 2-methylpropan-2-ol)	ALCOHOLS, N.O.S. (Ethanol, Butanone, Propan-2-ol, Isopentyl acetate, 2-methylpropan-2-ol)	ALCOHOLS, N.O.S. (Ethanol, Butanone, Propan-2-ol, Isopentyl acetate, 2-methylpropan-2-ol)
14.3	Transport hazard class(es)	3	3	3
	Classification code	30	-	-
	EmS	-	F-E, S-D	-
	Packaging instructions	P001 / IBC03 / LP01 / R001	P001;LP01 / IBC03 (IBC)	(passanger/cargo) 355 / 366
	Labels	3		
				
14.4	Packing group	III	III	III

14.5 Environmental hazards No data available.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not specified.

## Other information

Type of transport	Land transport ADR / RID	Sea transport IMDG	Air Transport ICAO / IATA
Limited quantities:	5 L	5 L	
Excepted quantities:	E1	E1	E1
Transport category:	3	-	-
Tunnel restriction code:	(D/E)	-	-
Segregation group:	-	-	-

## SECTION 15: Regulatory information

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

Regulation (EC) No. 1272/2008 (CLP) on classification, labelling and packaging of substances and mixtures,...  
Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),...  
Applicable national regulations.

### 15.2 Chemical safety assessment

Chemical safety assessment has been prepared for ethanol and ethan-1,2-diol.

## SECTION 16: Other information

### Complete text of all classifications and hazard classes referred to in SECTION 3

Hazard class: Acute Tox. 4 - Acute Toxicity, category 4  
Aquatic Acute 1 - Acute aquatic toxicity, category 1



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Aquatic Chronic 3 - Chronic (long term) aquatic hazard, category 3  
Eye Dam. 1 - Serious eye damage, category 1  
Eye Irrit. 2 - Eye irritation, category 2  
Flam. Liq. 2 - Flammable liquids, category 2  
Flam. Liq. 3 - Flammable liquids, category 3  
STOT RE 2 - Specific target organ toxicity (repeated exposure), category 2  
STOT SE 3 - Specific target organ toxicity — single exposure, category 3

### H-statements:

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

### Abbreviations:

ADN	Inland waterways
ADR	Accord Dangereuses Route
CAS	Chemical Abstracts Service
DNEL	Derived no-effect level
EC50	Effect concentration for 50%
EINECS	European Inventory of Existing Commercial Chemical Substances
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50%
LD50	Lethal dose for 50%
LOAEC	Lowest observable adverse effect concentration
LOAEL	Lowest observable adverse effect level
LOEC	Lowest observable effect concentration
LOEL	Lowest observable effect level
NOAEC	No observable adverse effect concentration
NOAEL	No observable adverse effect level
NOEC	No observable effect concentration
NOEL	No observable effect level
NPK-P	Maximum permissible concentration
OEL	Occupational Exposure Limit (workplace exposure limit - 8 hours / shift)
PBT	Persistent, bioaccumulative and toxic
PEL	Permissible exposure limits
PNEC	Predicted no-effect concentration
RID	Regulations for the International Carriage of Dangerous Goods by Rail
SCL	Specific concentration limits
STEL	Short Term Exposure Limit (short exposure - corresponds to approx. 15 min.)
VOC	Volatile organic substances
vPvB	Very persistent and very bioaccumulative

**Indication of changes:** first edition of SDS

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This version is in accordance with Regulations (EC) No. 1907/2006 (REACH) and No. 1272/2008 (CLP).

Key literature references and sources for data: manufacturer information, CASEC database.

Classification was performed by calculation method.

### Instructions for training:

Workers who come into contact with hazardous substances/mixtures must be in the necessary extent informed about the effects of these substances/mixtures, about the ways how to deal with them.

Workers must be in the necessary extent informed with protective measures, the principles of first aid, with the necessary sanitation practices and procedures for liquidation of failures and accidents.

A person dealing with this chemical product must be familiar with the safety rules and the data given in the MSDS.

If the hazardous chemical substance / mixture is classified as corrosive or toxic, workers must be familiar with the rules for handling with corrosive / toxic chemical substance/mixture.

Persons transporting hazardous substances must be familiar with the guidelines for emergency response in accordance with the regulations of ADR / RID.

### Other information:

The above information describes the conditions for safe handling and corresponds with current knowledge of the manufacturer.

The manufacturer bears responsibility for the above described properties of the product when used according to specifications.

The user is responsible for determining suitability of product for specific purposes and adapt security measures if such application is contrary to the manufacturers recommendations.