



# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name or designation of the mixture** Alu HiTemp

**Registration number** -

**Product registration number** P-95203

**Synonyms** None.

**Product code** BDS000109AE

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

**Identified uses** Anti Corrosion Products

**Uses advised against** None known.

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

**Company name** CRC Industries Europe bv

**Address** Touwslagerstraat 1  
9240 Zele  
Belgium

**Telephone** +32(0)52/45.60.11

**Fax** +32(0)52/45.00.34

**E-mail** hse@crcind.com

**Website** www.crcind.com

**1.4. Emergency telephone number** Tel.: +32(0)52/45.60.11 (office hours: 9-17h CET)

**Austria National Poisons Information Centre** +431 406 4343 (Available 24 hours a day.)

**Belgium National Poisons Control Center** 070 245 245 (Available 24 hours a day.)

**Bulgaria National Toxicological Information Centre** +359 2 9154233 (Available 24 hours a day.)

**Czech Republic National Poisons Information Centre** +420 224 919 293, or +420 224 915 402 (Hours of operation not provided.)

**Denmark National Poisons Control Center** +45 82 12 12 12 (Available 24 hours a day.)

**Estonia National Poisons Information Centre** 16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays))

**Finland National Poison Information Center** (09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day.)

**France National Poisons Control Center** ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day.)

**Hungary National Emergency Phone Number** 36 80 20 11 99 (Available 24 hours a day.)

**Lithuania Neatidėliotina informacija apsinuodijus** +370 5 236 20 52 or +37068753378 (Hours of operation not provided.)

**Malta Accident and Emergency Department** 2545 4030 (Hours of operation not provided.)

<b>Netherlands National Poisons Information Center (NVIC)</b>	030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)
<b>Norway Norwegian Poison Information Center</b>	22 59 13 00 (Available 24 hours a day.)
<b>Portugal Poison Centre</b>	800 250 250 (Available 24 hours a day.)
<b>Romania Număr de telefon care poate fi apelat în caz de urgență:</b>	021 5992300, int. 291 Spitalul Clinic de Urgență București: spital@urgentafloreasca.ro
<b>Romania</b>	0265 212111, 0265 211292, 0265 217235 Spitalul Clinic Județean de Urgență Târgu Mureș: secretariat@spitjudms.ro
<b>Slovakia National Toxicological Information Centre</b>	+421 2 5477 4166 (Available 24 hours a day.)
<b>Sweden National Poison Information Center</b>	112 - and ask for Poison Information (Available 24 hours a day.)
<b>Switzerland Tox Info Suisse</b>	145 (Available 24 hours a day.)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

<b>Physical hazards</b>		
Aerosols	Category 1	H222 - Extremely flammable aerosol. H229 - Pressurized container: May burst if heated.
<b>Health hazards</b>		
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** 2-Methoxy-1-methylethyl acetate, acetone; propan-2-one; propanone, butan-1-ol; n-butanol, Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics, n-butyl acetate

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

#### Precautionary statements

##### Prevention

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing mist/vapours.
P271	Use only outdoors or in a well-ventilated area.

##### Response

Not assigned.

##### Storage

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
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**Disposal**

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** EUH066 - Repeated exposure may cause skin dryness or cracking.

Dir. 2004/42/EC on the limitation of emissions of volatile organic compounds (VOC) of organic solvents in certain paints and varnishes and vehicle refinishing products: Cat.II B(e) VOC max 840 g/L &lt; 675 g/L

**2.3. Other hazards**

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Dimethyl ether	25 - 50	115-10-6 204-065-8	01-2119472128-37	603-019-00-8	#
<b>Classification:</b> Flam. Gas 1A;H220, Press. Gas;H280					
2-Methoxy-1-methylethyl acetate	5 - 15	108-65-6 203-603-9	01-2119475791-29	607-195-00-7	#
<b>Classification:</b> Flam. Liq. 3;H226, STOT SE 3;H336					
acetone; propan-2-one; propanone	5 - 10	67-64-1 200-662-2	01-2119471330-49	606-001-00-8	#
<b>Classification:</b> Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336					
<b>Supplemental Hazard Statement(s):</b> EUH066					
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	1 - 5	EC919-857-5 919-857-5	01-2119463258-33	-	
<b>Classification:</b> Flam. Liq. 3;H226, STOT SE 3;H336, Asp. Tox. 1;H304					
<b>Supplemental Hazard Statement(s):</b> EUH066					
n-butyl acetate	1 - 5	123-86-4 204-658-1	01-2119485493-29	607-025-00-1	#
<b>Classification:</b> Flam. Liq. 3;H226, STOT SE 3;H336					
<b>Supplemental Hazard Statement(s):</b> EUH066					
xylene	1 - 5	1330-20-7 215-535-7	01-2119488216-32	601-022-00-9	#
<b>Classification:</b> Flam. Liq. 3;H226, Acute Tox. 4;H312;(ATE: 1100 mg/kg bw), Acute Tox. 4;H332;(ATE: 11 mg/l), Skin Irrit. 2;H315					
butan-1-ol; n-butanol	<2,5	71-36-3 200-751-6	01-2119484630-38	603-004-00-6	
<b>Classification:</b> Flam. Liq. 3;H226, Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335;H336					

**List of abbreviations and symbols that may be used above**

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments**

The full text for all H-statements is displayed in section 16.

**SECTION 4: First aid measures****General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**4.1. Description of first aid measures****Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.

**Skin contact**

Wash off with soap and water. Get medical attention if irritation develops and persists.

<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Extremely flammable aerosol.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Alcohol resistant foam. Dry powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Special fire fighting procedures</b>	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
<b>For emergency responders</b>	Keep unnecessary personnel away. Ventilate closed spaces before entering them. Avoid breathing mist/vapours. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>6.3. Methods and material for containment and cleaning up</b>	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. The product is immiscible with water and will sediment in water systems. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist/vapours. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS). Storage class (TRGS 510): 2B (Aerosol dispensers and lighters)
<b>7.3. Specific end use(s)</b>	Observe industrial sector guidance on best practices.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational exposure limits****Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Ceiling	550 mg/m3
		100 ppm
	MAK	275 mg/m3
acetone; propan-2-one; propanone (CAS 67-64-1)		50 ppm
	MAK	1200 mg/m3
		500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	4800 mg/m3
		2000 ppm
	MAK	150 mg/m3
Dimethyl ether (CAS 115-10-6)		50 ppm
	STEL	600 mg/m3
		200 ppm
n-butyl acetate (CAS 123-86-4)	Ceiling	3820 mg/m3
		2000 ppm
	MAK	1910 mg/m3
xylene (CAS 1330-20-7)		1000 ppm
	Ceiling	480 mg/m3
		100 ppm
	MAK	241 mg/m3
		50 ppm
	MAK	221 mg/m3
		50 ppm
	STEL	442 mg/m3
		100 ppm

**Belgium. Exposure Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3
acetone; propan-2-one; propanone (CAS 67-64-1)		50 ppm
	STEL	1187 mg/m3
		492 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	594 mg/m3
		246 ppm
	TWA	62 mg/m3
Dimethyl ether (CAS 115-10-6)		20 ppm
	TWA	1920 mg/m3
		1000 ppm
n-butyl acetate (CAS 123-86-4)	STEL	712 mg/m3
		150 ppm
	TWA	238 mg/m3
		50 ppm

**Belgium. Exposure Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>
xylene (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>
		100 ppm
	TWA	221 mg/m <sup>3</sup>
		50 ppm

**Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
		100 ppm
	TWA	275 mg/m <sup>3</sup>
		50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	1400 mg/m <sup>3</sup>
	TWA	600 mg/m <sup>3</sup>
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	150 mg/m <sup>3</sup>
	TWA	100 mg/m <sup>3</sup>
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m <sup>3</sup>
		1000 ppm
n-butyl acetate (CAS 123-86-4)	STEL	723 mg/m <sup>3</sup>
		150 ppm
	TWA	241 mg/m <sup>3</sup>
		50 ppm
xylene (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>
		100 ppm
	TWA	221 mg/m <sup>3</sup>
		50 ppm

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	MAC	275 mg/m <sup>3</sup>
		50 ppm
	STEL	550 mg/m <sup>3</sup>
		100 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	MAC	1210 mg/m <sup>3</sup>
		500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	154 mg/m <sup>3</sup>
		50 ppm
Dimethyl ether (CAS 115-10-6)	MAC	1920 mg/m <sup>3</sup>
		1000 ppm
n-butyl acetate (CAS 123-86-4)	MAC	241 mg/m <sup>3</sup>
		50 ppm
	STEL	723 mg/m <sup>3</sup>
		150 ppm
xylene (CAS 1330-20-7)	MAC	221 mg/m <sup>3</sup>
		50 ppm
	STEL	442 mg/m <sup>3</sup>

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Components****Type****Value**

100 ppm

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended. Components****Type****Value**

butan-1-ol; n-butanol (CAS 71-36-3)

TWA

150 mg/m<sup>3</sup>

50 ppm

**Czech Republic. OELs. Government Decree 361 Components****Type****Value**

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)

Ceiling

550 mg/m<sup>3</sup>

TWA

270 mg/m<sup>3</sup>

acetone; propan-2-one; propanone (CAS 67-64-1)

Ceiling

1500 mg/m<sup>3</sup>

TWA

800 mg/m<sup>3</sup>

butan-1-ol; n-butanol (CAS 71-36-3)

Ceiling

600 mg/m<sup>3</sup>

TWA

300 mg/m<sup>3</sup>

Dimethyl ether (CAS 115-10-6)

Ceiling

2000 mg/m<sup>3</sup>

TWA

1000 mg/m<sup>3</sup>

n-butyl acetate (CAS 123-86-4)

Ceiling

723 mg/m<sup>3</sup>

TWA

241 mg/m<sup>3</sup>

xylene (CAS 1330-20-7)

Ceiling

400 mg/m<sup>3</sup>

TWA

200 mg/m<sup>3</sup>**Denmark****Components****Type****Value**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics

TWA

25 ppm

**Denmark. Exposure Limit Values Components****Type****Value**

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)

TLV

275 mg/m<sup>3</sup>

50 ppm

acetone; propan-2-one; propanone (CAS 67-64-1)

TLV

600 mg/m<sup>3</sup>

250 ppm

butan-1-ol; n-butanol (CAS 71-36-3)

Ceiling

150 mg/m<sup>3</sup>

50 ppm

Dimethyl ether (CAS 115-10-6)

TLV

1920 mg/m<sup>3</sup>

1000 ppm

n-butyl acetate (CAS 123-86-4)

TLV

241 mg/m<sup>3</sup>

50 ppm

xylene (CAS 1330-20-7)

TLV

109 mg/m<sup>3</sup>

25 ppm

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended Components****Type****Value**

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)

STEL

550 mg/m<sup>3</sup>

100 ppm

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended**

<b>Components</b>	<b>Type</b>	<b>Value</b>
	TWA	275 mg/m <sup>3</sup> 50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup> 500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	90 mg/m <sup>3</sup> 30 ppm
	TWA	45 mg/m <sup>3</sup> 15 ppm
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m <sup>3</sup> 1000 ppm
n-butyl acetate (CAS 123-86-4)	STEL	700 mg/m <sup>3</sup> 150 ppm
	TWA	500 mg/m <sup>3</sup> 100 ppm
xylene (CAS 1330-20-7)	STEL	450 mg/m <sup>3</sup> 100 ppm
	TWA	200 mg/m <sup>3</sup> 50 ppm

**Finland**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	500 mg/m <sup>3</sup>

**Finland. Workplace Exposure Limits**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup> 100 ppm
	TWA	270 mg/m <sup>3</sup> 50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	1500 mg/m <sup>3</sup> 630 ppm
	TWA	1200 mg/m <sup>3</sup> 500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	230 mg/m <sup>3</sup> 75 ppm
	TWA	150 mg/m <sup>3</sup> 50 ppm
Dimethyl ether (CAS 115-10-6)	TWA	2000 mg/m <sup>3</sup> 1000 ppm
n-butyl acetate (CAS 123-86-4)	STEL	725 mg/m <sup>3</sup> 150 ppm
	TWA	240 mg/m <sup>3</sup> 50 ppm
xylene (CAS 1330-20-7)	STEL	440 mg/m <sup>3</sup>

**Finland. Workplace Exposure Limits**

Components	Type	Value
		100 ppm
	TWA	220 mg/m <sup>3</sup>
		50 ppm

**France. OELs. Indicative Occupational Exposure Limits as Prescribed by Order of 30 June 2004, as amended**

Components	Type	Value
Dimethyl ether (CAS 115-10-6)	VME	1920 mg/m <sup>3</sup>
		1920 mg/m <sup>3</sup>
		1000 ppm
		1000 ppm

**France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	VLE	550 mg/m <sup>3</sup>
		100 ppm
	VME	275 mg/m <sup>3</sup>
		50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	VLE	2420 mg/m <sup>3</sup>
		1000 ppm
	VME	1210 mg/m <sup>3</sup>
		500 ppm
xylene (CAS 1330-20-7)	VLE	442 mg/m <sup>3</sup>
		100 ppm
	VME	221 mg/m <sup>3</sup>
		50 ppm

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	VLE	550 mg/m <sup>3</sup>
<b>Regulatory status:</b> Regulatory binding (VRC)		100 ppm
<b>Regulatory status:</b> Regulatory binding (VRC)	VME	275 mg/m <sup>3</sup>
<b>Regulatory status:</b> Regulatory binding (VRC)		50 ppm
<b>Regulatory status:</b> Regulatory binding (VRC)		2420 mg/m <sup>3</sup>
acetone; propan-2-one; propanone (CAS 67-64-1)	VLE	2420 mg/m <sup>3</sup>
<b>Regulatory status:</b> Regulatory binding (VRC)		1000 ppm
<b>Regulatory status:</b> Regulatory binding (VRC)	VME	1210 mg/m <sup>3</sup>
<b>Regulatory status:</b> Regulatory binding (VRC)		500 ppm
<b>Regulatory status:</b> Regulatory binding (VRC)		150 mg/m <sup>3</sup>
butan-1-ol; n-butanol (CAS 71-36-3)	VLE	150 mg/m <sup>3</sup>
<b>Regulatory status:</b> Indicative limit (VL)		50 ppm
<b>Regulatory status:</b> Indicative limit (VL)		

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Dimethyl ether (CAS 115-10-6)	VME	1920 mg/m3
<b>Regulatory status:</b>	Regulatory indicative (VRI)	
		1000 ppm
<b>Regulatory status:</b>	Regulatory indicative (VRI)	
n-butyl acetate (CAS 123-86-4)	VLE	241 mg/m3
<b>Regulatory status:</b>	Indicative limit (VL)	
		50 ppm
<b>Regulatory status:</b>	Indicative limit (VL)	
	VME	723 mg/m3
<b>Regulatory status:</b>	Indicative limit (VL)	
		150 ppm
<b>Regulatory status:</b>	Indicative limit (VL)	
xylene (CAS 1330-20-7)	VLE	442 mg/m3
<b>Regulatory status:</b>	Regulatory binding (VRC)	
		100 ppm
<b>Regulatory status:</b>	Regulatory binding (VRC)	
	VME	221 mg/m3
<b>Regulatory status:</b>	Regulatory binding (VRC)	
		50 ppm
<b>Regulatory status:</b>	Regulatory binding (VRC)	

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TWA	270 mg/m3
		50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1200 mg/m3
		500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	310 mg/m3
		100 ppm
Dimethyl ether (CAS 115-10-6)	TWA	1900 mg/m3
		1000 ppm
n-butyl acetate (CAS 123-86-4)	TWA	480 mg/m3
		100 ppm
xylene (CAS 1330-20-7)	TWA	220 mg/m3
		50 ppm

**Germany - TRGS 900**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	300 mg/m3

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	AGW	270 mg/m3
		50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	AGW	1200 mg/m3
		500 ppm

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value
butan-1-ol; n-butanol (CAS 71-36-3)	AGW	310 mg/m <sup>3</sup>
		100 ppm
Dimethyl ether (CAS 115-10-6)	AGW	1900 mg/m <sup>3</sup>
		1000 ppm
n-butyl acetate (CAS 123-86-4)	AGW	300 mg/m <sup>3</sup>
		62 ppm
xylene (CAS 1330-20-7)	AGW	220 mg/m <sup>3</sup>
		50 ppm

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
		100 ppm
	TWA	275 mg/m <sup>3</sup> 50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	3560 mg/m <sup>3</sup>
	TWA	1780 mg/m <sup>3</sup>
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	300 mg/m <sup>3</sup>
		100 ppm
	TWA	300 mg/m <sup>3</sup> 100 ppm
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m <sup>3</sup>
		1000 ppm
n-butyl acetate (CAS 123-86-4)	STEL	723 mg/m <sup>3</sup>
		150 ppm
	TWA	241 mg/m <sup>3</sup> 50 ppm
xylene (CAS 1330-20-7)	STEL	650 mg/m <sup>3</sup>
		150 ppm
	TWA	435 mg/m <sup>3</sup> 100 ppm

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
	TWA	275 mg/m <sup>3</sup>
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup>
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	90 mg/m <sup>3</sup>
	TWA	45 mg/m <sup>3</sup>
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m <sup>3</sup>
n-butyl acetate (CAS 123-86-4)	STEL	723 mg/m <sup>3</sup>
	TWA	241 mg/m <sup>3</sup>
xylene (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
	TWA	221 mg/m <sup>3</sup>

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
		100 ppm
	TWA	275 mg/m <sup>3</sup>
		50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	600 mg/m <sup>3</sup>
		250 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	150 mg/m <sup>3</sup>
		50 ppm
	TWA	80 mg/m <sup>3</sup>
		25 ppm
Dimethyl ether (CAS 115-10-6)	TWA	1885 mg/m <sup>3</sup>
		1000 ppm
n-butyl acetate (CAS 123-86-4)	STEL	723 mg/m <sup>3</sup>
		150 ppm
	TWA	241 mg/m <sup>3</sup>
		50 ppm
xylene (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>
		100 ppm
	TWA	109 mg/m <sup>3</sup>
		25 ppm

**Ireland. Occupational Exposure Limits**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
		100 ppm
	TWA	275 mg/m <sup>3</sup>
		50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup>
		500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	20 ppm
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m <sup>3</sup>
		1000 ppm
n-butyl acetate (CAS 123-86-4)	STEL	723 mg/m <sup>3</sup>
		150 ppm
	TWA	241 mg/m <sup>3</sup>
		50 ppm
xylene (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>
		100 ppm
	TWA	221 mg/m <sup>3</sup>
		50 ppm

**Italy. Occupational Exposure Limits**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3 100 ppm
	TWA	275 mg/m3 50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
	TWA	20 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	1920 mg/m3 1000 ppm
	TWA	723 mg/m3 150 ppm
Dimethyl ether (CAS 115-10-6)	STEL	241 mg/m3 50 ppm
	TWA	442 mg/m3 100 ppm
n-butyl acetate (CAS 123-86-4)	STEL	221 mg/m3 50 ppm
	TWA	
xylene (CAS 1330-20-7)	STEL	
	TWA	

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3 100 ppm
	TWA	275 mg/m3 50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
	TWA	10 mg/m3
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	1920 mg/m3 1000 ppm
	TWA	723 mg/m3 150 ppm
Dimethyl ether (CAS 115-10-6)	STEL	241 mg/m3 50 ppm
	TWA	442 mg/m3 100 ppm
n-butyl acetate (CAS 123-86-4)	STEL	221 mg/m3 50 ppm
	TWA	
xylene (CAS 1330-20-7)	STEL	
	TWA	

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	400 mg/m3 75 ppm
	TWA	250 mg/m3 50 ppm

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

<b>Components</b>	<b>Type</b>	<b>Value</b>
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	2420 mg/m3 1000 ppm
	TWA	1210 mg/m3 500 ppm
	Ceiling	90 mg/m3
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	30 ppm 45 mg/m3 15 ppm
	STEL	2280 mg/m3 1500 ppm
	TWA	1920 mg/m3 1000 ppm
xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

**Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3 100 ppm
	TWA	275 mg/m3 50 ppm
	TWA	1210 mg/m3 500 ppm
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3 1000 ppm
	STEL	723 mg/m3 150 ppm
	TWA	241 mg/m3 50 ppm
xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3 100 ppm
	TWA	275 mg/m3 50 ppm
	TWA	1210 mg/m3 500 ppm

**Malta. OELs. Occupational Exposure Limit Values (L.N. 227. of Occupational Health and Safety Authority Act (CAP. 424), Schedules I and V)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m3
		1000 ppm
n-butyl acetate (CAS 123-86-4)	STEL	723 mg/m3
		150 ppm
	TWA	241 mg/m3
xylene (CAS 1330-20-7)		50 ppm
	STEL	442 mg/m3
	TWA	221 mg/m3
		50 ppm

**Netherlands. OELs (binding)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TWA	550 mg/m3
	STEL	2420 mg/m3
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m3
	STEL	1500 mg/m3
Dimethyl ether (CAS 115-10-6)	TWA	950 mg/m3
	STEL	723 mg/m3
n-butyl acetate (CAS 123-86-4)	TWA	241 mg/m3
	STEL	442 mg/m3
xylene (CAS 1330-20-7)	TWA	210 mg/m3

**Norway**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TWA	275 mg/m3

**Norway. Administrative Norms for Contaminants in the Workplace**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TLV	270 mg/m3
		50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TLV	295 mg/m3
		125 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	Ceiling	75 mg/m3
		25 ppm
Dimethyl ether (CAS 115-10-6)	TLV	384 mg/m3
		200 ppm
n-butyl acetate (CAS 123-86-4)	STEL	723 mg/m3
		150 ppm
	TLV	241 mg/m3
xylene (CAS 1330-20-7)		50 ppm
	TLV	108 mg/m3
		25 ppm

**Poland. Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	520 mg/m <sup>3</sup>
	TWA	260 mg/m <sup>3</sup>
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	1800 mg/m <sup>3</sup>
	TWA	600 mg/m <sup>3</sup>
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	150 mg/m <sup>3</sup>
	TWA	50 mg/m <sup>3</sup>
Dimethyl ether (CAS 115-10-6)	TWA	1000 mg/m <sup>3</sup>
n-butyl acetate (CAS 123-86-4)	STEL	720 mg/m <sup>3</sup>
	TWA	240 mg/m <sup>3</sup>
xylene (CAS 1330-20-7)	STEL	200 mg/m <sup>3</sup>
	TWA	100 mg/m <sup>3</sup>

**Portugal. OELs. Decree-Law n. 290/2001 (Journal of the Republic - 1 Series A, n.266)**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
		100 ppm
	TWA	275 mg/m <sup>3</sup> 50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup> 500 ppm
		1920 mg/m <sup>3</sup>
Dimethyl ether (CAS 115-10-6)	TWA	1000 ppm
		723 mg/m <sup>3</sup>
n-butyl acetate (CAS 123-86-4)	STEL	150 ppm
		241 mg/m <sup>3</sup>
	TWA	50 ppm
xylene (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup> 100 ppm
		221 mg/m <sup>3</sup>
	TWA	50 ppm

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	20 ppm
n-butyl acetate (CAS 123-86-4)	STEL	200 ppm
	TWA	150 ppm
xylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
		100 ppm
	TWA	275 mg/m <sup>3</sup>
		50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup>
		500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	200 mg/m <sup>3</sup>
		66 ppm
	TWA	100 mg/m <sup>3</sup>
		33 ppm
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m <sup>3</sup>
		1000 ppm
n-butyl acetate (CAS 123-86-4)	STEL	723 mg/m <sup>3</sup>
		150 ppm
	TWA	241 mg/m <sup>3</sup>
		50 ppm
xylene (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>
		100 ppm
	TWA	221 mg/m <sup>3</sup>
		50 ppm

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
		100 ppm
	TWA	275 mg/m <sup>3</sup>
		50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup>
		500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	310 mg/m <sup>3</sup>
		100 ppm
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m <sup>3</sup>
		1000 ppm
n-butyl acetate (CAS 123-86-4)	STEL	723 mg/m <sup>3</sup>
		150 ppm
	TWA	241 mg/m <sup>3</sup>
		50 ppm
xylene (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>
		100 ppm
	TWA	221 mg/m <sup>3</sup>
		50 ppm

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	TWA	275 mg/m <sup>3</sup>

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value
		50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup>
		500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	310 mg/m <sup>3</sup>
		100 ppm
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m <sup>3</sup>
		1000 ppm
n-butyl acetate (CAS 123-86-4)	TWA	241 mg/m <sup>3</sup>
		50 ppm
xylene (CAS 1330-20-7)	TWA	221 mg/m <sup>3</sup>
		50 ppm

**Spain. Occupational Exposure Limits**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m <sup>3</sup>
		100 ppm
	TWA	275 mg/m <sup>3</sup>
		50 ppm
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1210 mg/m <sup>3</sup>
		500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	154 mg/m <sup>3</sup>
		50 ppm
	TWA	61 mg/m <sup>3</sup>
		20 ppm
Dimethyl ether (CAS 115-10-6)	TWA	1920 mg/m <sup>3</sup>
		1000 ppm
n-butyl acetate (CAS 123-86-4)	STEL	724 mg/m <sup>3</sup>
		150 ppm
	TWA	241 mg/m <sup>3</sup>
		50 ppm
xylene (CAS 1330-20-7)	STEL	442 mg/m <sup>3</sup>
		100 ppm
	TWA	221 mg/m <sup>3</sup>
		50 ppm

**Sweden**

Components	Type	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	STEL (STV)	600 mg/m <sup>3</sup>
	TWA	300 mg/m <sup>3</sup>

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Ceiling	550 mg/m <sup>3</sup>
		100 ppm

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	275 mg/m3 50 ppm
	STEL	1200 mg/m3
	TWA	500 ppm
butan-1-ol; n-butanol (CAS 71-36-3)	TWA	600 mg/m3 250 ppm
	Ceiling	90 mg/m3
	TWA	30 ppm
Dimethyl ether (CAS 115-10-6)	STEL	45 mg/m3 15 ppm
	TWA	1500 mg/m3
	TWA	800 ppm
n-butyl acetate (CAS 123-86-4)	Ceiling	950 mg/m3 500 ppm
	STEL	723 mg/m3
	TWA	150 ppm
xylene (CAS 1330-20-7)	Ceiling	700 mg/m3 150 ppm
	TWA	500 mg/m3 100 ppm
	Ceiling	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

**Switzerland  
Components**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	STEL	6000 mg/m3
	TWA	300 mg/m3

**Switzerland. SUVA Grenzwerte am Arbeitsplatz  
Components**

<b>Components</b>	<b>Type</b>	<b>Value</b>
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	275 mg/m3 50 ppm
	TWA	275 mg/m3 50 ppm
	STEL	2400 mg/m3
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	1000 ppm
	TWA	1200 mg/m3 500 ppm
	STEL	310 mg/m3
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	310 mg/m3 100 ppm
	TWA	310 mg/m3 100 ppm
	TWA	1910 mg/m3

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
n-butyl acetate (CAS 123-86-4)	STEL	1000 ppm 720 mg/m3
	TWA	150 ppm 240 mg/m3
xylene (CAS 1330-20-7)	STEL	50 ppm 870 mg/m3
	TWA	200 ppm 435 mg/m3 100 ppm

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	548 mg/m3
	TWA	100 ppm 274 mg/m3
acetone; propan-2-one; propanone (CAS 67-64-1)	STEL	50 ppm 3620 mg/m3
	TWA	1500 ppm 1210 mg/m3
butan-1-ol; n-butanol (CAS 71-36-3)	STEL	500 ppm 154 mg/m3
	STEL	50 ppm 958 mg/m3
Dimethyl ether (CAS 115-10-6)	TWA	500 ppm 766 mg/m3
	STEL	400 ppm 966 mg/m3
n-butyl acetate (CAS 123-86-4)	TWA	200 ppm 724 mg/m3
	STEL	150 ppm 441 mg/m3
xylene (CAS 1330-20-7)	TWA	100 ppm 220 mg/m3
	STEL	50 ppm

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU**

Components	Type	Value
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	STEL	550 mg/m3
	TWA	100 ppm 275 mg/m3
acetone; propan-2-one; propanone (CAS 67-64-1)	TWA	50 ppm 1210 mg/m3
	TWA	500 ppm 1920 mg/m3
Dimethyl ether (CAS 115-10-6)	TWA	1000 ppm

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU**

Components	Type	Value
n-butyl acetate (CAS 123-86-4)	STEL	723 mg/m <sup>3</sup>
		150 ppm
	TWA	241 mg/m <sup>3</sup>
xylene (CAS 1330-20-7)		50 ppm
	STEL	442 mg/m <sup>3</sup>
	TWA	221 mg/m <sup>3</sup>
		100 ppm
		50 ppm

**Biological limit values**

**Croatia. BLV. Dangerous Substance Exposure Limit Values at Workplace, Annexes 4 (as amended)**

Components	Value	Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	20 mg/g	Acetone	Creatinine in urine	*
	20 mg/l	Acetone	Blood	*
	0,34 mmol/l	Acetone	Blood	*
	39 mmol/mol	Acetone	Creatinine in urine	*
xylene (CAS 1330-20-7)	1,5 g/g	Methylhippuric acids	Creatinine in urine	*
	1,5 mg/l	xylene	Blood	*
	0,88 mol/mol	Methylhippuric acids	Creatinine in urine	*
	14,13 umol/l	xylene	Blood	*

\* - For sampling details, please see the source document.

**Czech Republic. Limit Values for Indicators of Biological Exposure Tests in Urine and Blood, Annex 2, Tables 1 and 2, Government Decree 432/2003 Sb.**

Components	Value	Determinant	Specimen	Sampling Time
xylene (CAS 1330-20-7)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV) , Social Affairs and Ministry of Health**

Components	Value	Determinant	Specimen	Sampling Time
xylene (CAS 1330-20-7)	5 mmol/l	Methylhippuric acids	Urine	*

\* - For sampling details, please see the source document.

**France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)**

Components	Value	Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	100 mg/l	Acétone	Urine	*
xylene (CAS 1330-20-7)	1500 mg/g	Acides méthylhippuriques	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Germany. TRGS 903, BAT List (Biological Limit Values)**

Components	Value	Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	80 mg/l	ACETON	Urine	*
butan-1-ol; n-butanol (CAS 71-36-3)	2 mg/g	1-Butanol (nach Hydrolyse)	Urine	*
	10 mg/g	1-Butanol (nach Hydrolyse)	Urine	*

**Germany. TRGS 903, BAT List (Biological Limit Values)**

Components	Value	Determinant	Specimen	Sampling Time
xylene (CAS 1330-20-7)	2000 mg/l	Methylhippur-(Tolur-) säure (alle Isomere)	Urine	*

\* - For sampling details, please see the source document.

**Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices**

Components	Value	Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	1380 µmol/l	Acetone	Urine	*
	80 mg/l	Acetone	Urine	*
butan-1-ol; n-butanol (CAS 71-36-3)	3 µmol/mmol	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*
	15 µmol/mmol	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*
	2 mg/g	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*
	10 mg/g	n-butyl alcohol (with hydrolysis)	Creatinine in urine	*
xylene (CAS 1330-20-7)	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*
	1500 mg/g	methyl hippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2**

Components	Value	Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	53,36 mg/g	Acetone	Creatinine in urine	*
	80 mg/l	Acetone	Urine	*
butan-1-ol; n-butanol (CAS 71-36-3)	2 mg/g	N-Butyl Alcohol	Creatinine in urine	*
	10 mg/g	N-Butyl Alcohol	Creatinine in urine	*
xylene (CAS 1330-20-7)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*
	2000 mg/l	Methylhippuric acids	Urine	*
	1,5 mg/l	xylene	Blood	*

\* - For sampling details, please see the source document.

**Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4**

Components	Value	Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	50 mg/l	Acetona	Urine	*
xylene (CAS 1330-20-7)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)**

Components	Value	Determinant	Specimen	Sampling Time
acetone; propan-2-one; propanone (CAS 67-64-1)	80 mg/l	ACETON	Urine	*
butan-1-ol; n-butanol (CAS 71-36-3)	2 mg/g	n-Butanol	Creatinine in urine	
	10 mg/g	n-Butanol	Creatinine in urine	*

**Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)**

Components	Value	Determinant	Specimen	Sampling Time
xylene (CAS 1330-20-7)	2 g/l	Methyl-Hippurs äure	Urine	*

\* - For sampling details, please see the source document.

**UK. EH40 Biological Monitoring Guidance Values (BMGVs)**

Components	Value	Determinant	Specimen	Sampling Time
xylene (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)****General population**

Components	Value	Assessment factor	Notes
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)			
Long-term, Local, Inhalation	33 mg/m <sup>3</sup>	2	respiratory tract irritation
Long-term, Systemic, Dermal	320 mg/kg bw/day	16,8	Repeated dose toxicity
Long-term, Systemic, Inhalation	33 mg/m <sup>3</sup>	2	respiratory tract irritation
Long-term, Systemic, Oral	36 mg/kg bw/day	28	Repeated dose toxicity
acetone; propan-2-one; propanone (CAS 67-64-1)			
Long-term, Systemic, Dermal	62 mg/kg bw/day	20	
Long-term, Systemic, Inhalation	200 mg/m <sup>3</sup>	5	
Long-term, Systemic, Oral	62 mg/kg bw/day	2	
Dimethyl ether (CAS 115-10-6)			
Long-term, Systemic, Inhalation	471 mg/m <sup>3</sup>	25	Repeated dose toxicity
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS EC919-857-5)			
Long-term, Systemic, Dermal	300 mg/kg		
Long-term, Systemic, Inhalation	900 mg/m <sup>3</sup>		
Long-term, Systemic, Oral	300 mg/kg		
n-butyl acetate (CAS 123-86-4)			
Long-term, Local, Inhalation	35,7 mg/m <sup>3</sup>	12	irritation respiratory tract
Short-term, Local, Inhalation	300 mg/m <sup>3</sup>		irritation respiratory tract
Short-term, Systemic, Dermal	6 mg/kg bw/day	100	Neurotoxicity
xylene (CAS 1330-20-7)			
Long-term, Local, Inhalation	65,3 mg/m <sup>3</sup>	1,7	irritation respiratory tract
Long-term, Systemic, Dermal	125 mg/kg bw/day	1,7	Neurotoxicity
Short-term, Local, Inhalation	260 mg/m <sup>3</sup>	1,7	Neurotoxicity

**Workers**

Components	Value	Assessment factor	Notes
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)			
Long-term, Systemic, Dermal	796 mg/kg bw/day	10,08	Repeated dose toxicity
Long-term, Systemic, Inhalation	275 mg/m <sup>3</sup>	6	respiratory tract irritation
Short-term, Local, Inhalation	550 mg/m <sup>3</sup>	3	respiratory tract irritation
acetone; propan-2-one; propanone (CAS 67-64-1)			
Long-term, Systemic, Dermal	186 mg/kg bw/day		
Long-term, Systemic, Inhalation	1210 mg/m <sup>3</sup>		
Short-term, Local, Inhalation	2420 mg/m <sup>3</sup>		
Dimethyl ether (CAS 115-10-6)			
Long-term, Systemic, Inhalation	1894 mg/m <sup>3</sup>	12,5	Repeated dose toxicity
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (CAS EC919-857-5)			
Long-term, Systemic, Dermal	300 mg/kg		
Short-term, Systemic, Inhalation	1500 mg/m <sup>3</sup>		
n-butyl acetate (CAS 123-86-4)			
Long-term, Local, Inhalation	300 mg/m <sup>3</sup>	6	irritation respiratory tract
Long-term, Systemic, Dermal	7 mg/kg bw/day	25	Repeated dose toxicity
Short-term, Systemic, Dermal	11 mg/kg bw/day	50	Neurotoxicity
Short-term, Systemic, Inhalation	600 mg/m <sup>3</sup>		irritation respiratory tract
xylene (CAS 1330-20-7)			
Long-term, Local, Inhalation	221 mg/m <sup>3</sup>	1	irritation respiratory tract

Long-term, Systemic, Dermal	212 mg/kg bw/day	1	Neurotoxicity
Long-term, Systemic, Inhalation	221 mg/m <sup>3</sup>	1	Neurotoxicity

#### Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)			
Freshwater	0,635 mg/l	100	
Sediment (freshwater)	3,29 mg/kg		
Soil	0,29 mg/kg		
STP	100 mg/l	10	
acetone; propan-2-one; propanone (CAS 67-64-1)			
Freshwater	10,6 mg/l	50	
Marine water	1,06 mg/l	500	
Sediment (freshwater)	30,4 mg/kg		
Sediment (marine water)	3,04 mg/kg		
Soil	29,5 mg/kg		
STP	100 mg/l	10	
Dimethyl ether (CAS 115-10-6)			
Freshwater	0,155 mg/l	1000	
Sediment (freshwater)	0,681 mg/kg		
Soil	0,045 mg/kg		
STP	160 mg/l	10	
n-butyl acetate (CAS 123-86-4)			
Freshwater	0,18 mg/l	100	
Sediment (freshwater)	0,981 mg/kg		
Soil	0,09 mg/kg		
xylene (CAS 1330-20-7)			
Freshwater	0,327 mg/l	1	
Sediment (freshwater)	12,46 mg/kg	1	
Soil	2,31 mg/kg	1	
STP	6,58 mg/l	1	

#### Exposure guidelines

##### Austria MAK: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylene (CAS 1330-20-7)	Can be absorbed through the skin.

##### Belgium OELs: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.
xylene (CAS 1330-20-7)	Can be absorbed through the skin.

##### Bulgaria OELs: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylene (CAS 1330-20-7)	Can be absorbed through the skin.

##### Croatia ELVs: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.
xylene (CAS 1330-20-7)	Can be absorbed through the skin.

##### Cyprus OEL: Skin designation

butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.
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##### Czech Republic PELs: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylene (CAS 1330-20-7)	Can be absorbed through the skin.

##### Denmark GV: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.
xylene (CAS 1330-20-7)	Can be absorbed through the skin.

##### Estonia OELs: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.
xylene (CAS 1330-20-7)	Can be absorbed through the skin.

##### EU Exposure Limit Values: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylene (CAS 1330-20-7)	Can be absorbed through the skin.

##### Finland Exposure Limit Values: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.

xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>France INRS: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Germany DFG MAK (advisory): Skin designation</b>	
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Germany TRGS 900 Limit Values: Skin designation</b>	
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Greece OEL: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Hungary OELs: Skin designation</b>	
butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Iceland OELs: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Ireland Exposure Limit Values: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Italy OELs: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Danger of cutaneous absorption
xylylene (CAS 1330-20-7)	Danger of cutaneous absorption
<b>Latvia OELs: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Lithuania OELs: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Luxembourg OELs: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Malta OELs: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Netherlands OELs (binding): Skin designation</b>	
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Norway Exposure Limit Values: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Portugal OELs: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Romania OELs: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Slovakia OELs: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Spain OELs: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.
<b>Sweden Threshold Limit Values: Skin designation</b>	
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
butan-1-ol; n-butanol (CAS 71-36-3)	Can be absorbed through the skin.
xylylene (CAS 1330-20-7)	Can be absorbed through the skin.

## Switzerland SUVA Limit Values at the Workplace: Skin designation

xylene (CAS 1330-20-7) Can be absorbed through the skin.

## UK EH40 WEL: Skin designation

2-Methoxy-1-methylethyl acetate (CAS 108-65-6) Can be absorbed through the skin.

butan-1-ol; n-butanol (CAS 71-36-3) Can be absorbed through the skin.

xylene (CAS 1330-20-7) Can be absorbed through the skin.

## 8.2. Exposure controls

**Appropriate engineering controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

## Individual protection measures, such as personal protective equipment

**General information** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.

### Skin protection

**- Hand protection** When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Suitable gloves can be recommended by the glove supplier. Nitrile gloves are recommended.

**- Other** Not available.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge and full facepiece. (Filter type AX)

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid.
<b>Form</b>	Aerosol.
<b>Colour</b>	Grey.
<b>Odour</b>	Characteristic odor.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	Not available.
<b>Flammability</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	0,6 % estimated
<b>Explosive limit – upper (%)</b>	12,8 % estimated
<b>Flash point</b>	-35,0 °C (-31,0 °F) Closed cup
<b>Auto-ignition temperature</b>	> 200 °C (> 392 °F)
<b>Decomposition temperature</b>	Not available.
<b>pH</b>	Not applicable.
<b>Kinematic viscosity</b>	Not available.
<b>Solubility</b>	
<b>Solubility (water)</b>	Insoluble in water
<b>Partition coefficient (n-octanol/water) (log value)</b>	Not applicable
<b>Vapour pressure</b>	Not available.
<b>Density and/or relative density</b>	
<b>Relative density</b>	1,06 g/cm <sup>3</sup> at 20°C

Vapour density Not available.

Particle characteristics Not available.

## 9.2. Other information

9.2.1. Information with regard to physical hazard classes No relevant additional information available.

### 9.2.2. Other safety characteristics

Evaporation rate Not available.

VOC 492 g/l

## SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid high temperatures.

10.5. Incompatible materials Nitrates.

10.6. Hazardous decomposition products Carbon oxides.

## SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

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

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### 11.1. Information on toxicological effects

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

Product	Species	Test Results
Alu HiTemp		
<b>Acute</b>		
<b>Dermal</b>		
ATEmix		22022 mg/kg bw
<b>Oral</b>		
ATEmix		40000 mg/kg bw
<b>Components</b>		
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	5100 mg/kg
<b>Inhalation</b>		
LC50	Rat	30 mg/l/4h
<b>Oral</b>		
LD50	Rat	8532 mg/kg
acetone; propan-2-one; propanone (CAS 67-64-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	15800 mg/kg
<b>Inhalation</b>		
LC50	Rat	50,1 mg/l, 8 Hours
<b>Oral</b>		
LD50	Rat	5800 mg/kg

Components	Species	Test Results
Dimethyl ether (CAS 115-10-6)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Rat	308,5 mg/l, 4 Hours
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
n-butyl acetate (CAS 123-86-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	14122 mg/kg
<b>Inhalation</b>		
LC50	Rat	23,4 mg/l/4h
<b>Oral</b>		
LD50	Rat	14000 mg/kg
xylene (CAS 1330-20-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	12126 mg/kg
<b>Inhalation</b>		
LC50	Rat	27124 mg/m <sup>3</sup>
<b>Oral</b>		
LD50	Rat	3523 mg/kg
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Respiratory sensitisation</b>	Based on available data, the classification criteria are not met.	
<b>Skin sensitisation</b>	Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.	
<b>Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)</b>	Not listed.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.	
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness or dizziness.	
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Not likely, due to the form of the product.	
<b>Mixture versus substance information</b>	Not available.	
<b>11.2. Information on other hazards</b>		
<b>Endocrine disrupting properties</b>	This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.	
<b>Other information</b>	Not available.	

## SECTION 12: Ecological information

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
2-Methoxy-1-methylethyl acetate (CAS 108-65-6)		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	EC50	Algae > 1000 mg/l, 72 h
Crustacea	EC50	Daphnia > 400 mg/l, 48 h
Fish	LC50	Fish > 100 - < 180 mg/l, 96 h
Dimethyl ether (CAS 115-10-6)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Daphnia 4,4 mg/l
Fish	LC50	Fish 4,1 mg/l
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics		
<i>Acute</i>		
Other	LC50	Pseudokirchnerella subcapitata > 1000 mg/l, 72 h
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Oncorhynchus mykiss > 1000 mg/l
n-butyl acetate (CAS 123-86-4)		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	EC50	Algae 675 mg/l, 72 h
Crustacea	EC50	Daphnia 73 mg/l, 24 h
Fish	LC50	Fish 62 mg/l, 96 h
<b>12.2. Persistence and degradability</b>	No data is available on the degradability of any ingredients in the mixture.	
<b>12.3. Bioaccumulative potential</b>		
<b>Partition coefficient n-octanol/water (log Kow)</b>		
acetone; propan-2-one; propanone	-0,24	
butan-1-ol; n-butanol	0,88	
Dimethyl ether	0,1	
n-butyl acetate	1,78	
<b>Bioconcentration factor (BCF)</b>	Not available.	
<b>12.4. Mobility in soil</b>	No data available.	
<b>12.5. Results of PBT and vPvB assessment</b>	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.	
<b>12.6. Endocrine disrupting properties</b>	This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.	
<b>12.7. Other adverse effects</b>	The product contains volatile organic compounds which have a photochemical ozone creation potential. GWP: 1	
<b>Substance Global Warming Potential per (Annex IV), Regulation 517/2014/EU on fluorinated greenhouse gases, as amended</b>		
Dimethyl ether (CAS 115-10-6)	1	
<b>12.8. Additional information</b>		
<b>Estonia Dangerous substances in soil Data</b>		
xylene (CAS 1330-20-7)	Chemical pesticides (As the total sum of the active substances) 0,5 mg/kg Chemical pesticides (As the total sum of the active substances) 20 mg/kg Chemical pesticides (As the total sum of the active substances) 5 mg/kg	

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN1950
<b>14.2. UN proper shipping name</b>	AEROSOLS, flammable
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	Not assigned.
<b>Label(s)</b>	2.1
<b>Hazard No. (ADR)</b>	Not assigned.
<b>Tunnel restriction code</b>	D
<b>ADR/RID - Classification code:</b>	5F
<b>14.4. Packing group</b>	Not assigned.
<b>14.5. Environmental hazards</b>	No.
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### IATA

<b>14.1. UN number</b>	UN1950
<b>14.2. UN proper shipping name</b>	Aerosols, flammable
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	Not assigned.
<b>14.4. Packing group</b>	Not assigned.
<b>14.5. Environmental hazards</b>	No.
<b>ERG Code</b>	10L
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

### IMDG

<b>14.1. UN number</b>	UN1950
<b>14.2. UN proper shipping name</b>	Aerosols, flammable
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	Not assigned.
<b>14.4. Packing group</b>	Not assigned.
<b>14.5. Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	F-D, S-U
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	Not established.



## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

acetone; propan-2-one; propanone (CAS 67-64-1)

xylene (CAS 1330-20-7)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### Restrictions on use

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see

[https://ec.europa.eu/home-affairs/system/files/2021-11/list\\_of\\_competent\\_authorities\\_and\\_national\\_contact\\_points\\_en.pdf](https://ec.europa.eu/home-affairs/system/files/2021-11/list_of_competent_authorities_and_national_contact_points_en.pdf).

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

acetone; propan-2-one; propanone (CAS 67-64-1)

butan-1-ol; n-butanol (CAS 71-36-3)

Dimethyl ether (CAS 115-10-6)

xylene (CAS 1330-20-7)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

2-Methoxy-1-methylethyl acetate (CAS 108-65-6)

acetone; propan-2-one; propanone (CAS 67-64-1)

butan-1-ol; n-butanol (CAS 71-36-3)

Dimethyl ether (CAS 115-10-6)

n-butyl acetate (CAS 123-86-4)

xylene (CAS 1330-20-7)

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.  
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).  
ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).  
CAS: Chemical Abstract Service.  
Ceiling: Short Term Exposure Limit Ceiling value.  
CEN: European Committee for Standardization.  
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.  
GWP: Global Warming Potential.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MAC: Maximum Allowed Concentration.  
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
PBT: Persistent, bioaccumulative and toxic.  
REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals).  
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TLV: Threshold Limit Value.  
TWA: Time Weighted Average.  
VLE: Exposure Limit Value.  
VME: Exposure Average Value.  
VOC: Volatile organic compounds.  
vPvB: Very persistent and very bioaccumulative.  
STEL: Short-term Exposure Limit.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Full text of any statements, which are not written out in full under sections 2 to 15

H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
EUH066 Repeated exposure may cause skin dryness or cracking.

### Revision information

None.

### Training information

Follow training instructions when handling this material.

### Disclaimer

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