SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

of the mixture

LPS® ZeroTri® (Aerosol)

Registration number

Synonyms None.

03520, M03520 **Part Number** 04-October-2017 Issue date

Version number 01

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

Identified uses An industrial degreaser designed to remove oil, grease, wax, moisture, dirt or other contaminants

from parts and equipments.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier Alsco Ltd

Company name Unite 13 Hillmead Industrial Estate

Address Marshall Road

Swindon, Wiltshire

United Kingdom SN5 5FZ

Telephone +44 1793 733 900 +001 703-527-3887 In Case of Emergency

Manufacturer

e-mail

Rocol Company name

Rocol House **Address**

> Swillington Leeds LS26 8BS United Kingdom

Tel: +44 (0) 113 232 2700 Fax: +44 (0) 113 232 2740 lpssds@itwprobrands.com

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 Directive 67/548/EEC or 1999/45/EC as amended

Classification F+;R12, Xi;R36/38, R67, N;R51/53

The full text for all R-phrases is displayed in section 16.

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

Physical hazards

Aerosols Category 1 H222 - Extremely flammable

aerosol.

H229 - Pressurized container: May

burst if heated.

Health hazards

exposure

Skin corrosion/irritation Category 2 H315 - Causes skin irritation. Serious eye damage/eye irritation H319 - Causes serious eye Category 2

irritation.

Specific target organ toxicity - single

Category 3 narcotic effects

H336 - May cause drowsiness or

dizziness.

Environmental hazards

Hazardous to the aquatic environment,

long-term aquatic hazard

H411 - Toxic to aquatic life with Category 2

long lasting effects.

Material name: LPS® ZeroTri® (Aerosol) - ITW Pro Brands (Rocol EU) 03520, M03520 Version #: 01 Issue date: 04-October-2017

Hazard summary

Physical hazards Extremely flammable.

Health hazards Irritating to eyes and skin. Vapours may cause drowsiness and dizziness.

Environmental hazardsToxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Specific hazards None known

Main symptoms May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

2.2. Label elements

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

Contains: 2-Methyl Butyl Acetate, Acetone, Carbon dioxide, Cyclohexylmethane, Hydrocarbons, C7,

N-Alkanes, Isoalkanes, Cyclics

Hazard pictograms



Signal word Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

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 gas.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.
P280 Wear eye protection/face protection.

P280 Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P312 Call a PÓISON CENTRE/doctor if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

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.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Acetone		30- 40	67-64-1 200-662-2	-	606-001-00-8	#
Classification:	DSD:	F;R11, Xi;R36, F	R66-67			
	CLP:	Flam. Liq. 2;H22	5, Eye Irrit. 2;H319,	STOT SE 3;H336		
Hydrocarbons, C7, N-Alk Isoalkanes, Cyclics	kanes,	30 - 40	64742-49-0 927-510-4	01-21194755-33-XXXX	649-328-00-1	
Classification:	DSD:	Carc. Cat. 2;R45	, Muta. Cat. 2;R46,	Xn;R65		Р
	CLP:	Flam. Liq. 2;H22 Aquatic Chronic		, Skin Irrit. 2;H315, STOT S	SE 3;H336,	Р
Cyclohexylmethane		20 - 30	108-87-2 203-624-3	-	601-018-00-7	
Classification:	DSD:	F;R11, Xn;R65,	Xi;R38, R67, N;R51	/53		
	CLP:	Flam. Liq. 2;H22 Aquatic Chronic		., Skin Irrit. 2;H315, STOT S	SE 3;H336,	
Carbon dioxide		1 - 5	124-38-9 204-696-9	-	-	#
Classification:	DSD:	-				
	CLP:	-				
2-Methyl Butyl Acetate		1 - 3	624-41-9 210-843-8	-	607-130-00-2	
Classification:	DSD:	R10, R66				С
	CLP:	Flam. Liq. 3;H22	6			С
Amyl Acetate		1 - 3	628-63-7 211-047-3	-	607-130-00-2	#
Classification:	DSD:	R10, R66				С
	CLP:	Flam. Liq. 3;H22	e			С

List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

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

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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

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.

Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7).

Composition comments The full text for all R- and H-phrases 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 Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion In the unlikely event of swallowing contact a physician or poison control centre. Rinse mouth.

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

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

cause redness and pain.

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards

Extremely flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing

media

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising

Contents under pressure. Pressurised container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

from the substance or mixture 5.3. Advice for firefighters

> Special protective equipment for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire fighting procedures

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor 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.

Use standard firefighting procedures and consider the hazards of other involved materials. Move

containers. In the event of fire and/or explosion do not breathe fumes.

Specific methods

containers from fire area if you can do so without risk. Use water spray to cool unopened

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Prevent product from entering drains.

Large Spills: Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. 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.

Never return spills to original containers for re-use.

6.4. Reference to other sections

Use personal protection recommended in Section 8 of the SDS. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Amethyl Butyl Acetate (CAS 624-41-9) STEL S0 ppm S0 ppm S0 ppm STEL S0 ppm	Austria. MAK List, OEL Ordinance (G Components	wV), BGBI. II, no. 184/2001 Type	l Value
STEL			
STEL		IVIAN	270 Hig/ilis
Acetone (CAS 67-64-1) MAK 1200 mg/m3 500 ppm 4800 mg/m3 500 ppm 2000 ppm 500 ppm 300 p	,		• •
Acetone (CAS 67-64-1) MAK 1200 mg/m3		STEL	
STEL			
STEL	Acetone (CAS 67-64-1)	MAK	1200 mg/m3
Amyl Acetate (CAS Bacetate			500 ppm
Amyl Acetate (CAS 626-63-7) MAK 270 mg/m3 628-63-7) 50 ppm Carbon dioxide (CAS Celling 15000 mg/m3 124-38-9) 10000 ppm MAK 9000 mg/m3 50000 ppm 5000 ppm Cyclohexylmethane (CAS MAK 1600 mg/m3 108-87-2) 400 ppm Belgium. Exposure Limit Values. 400 ppm Components Type Value Z-Methly Butyl Acetate STEL 540 mg/m3 (CAS 624-41-8) 100 ppm Acetone (CAS 67-64-1) STEL 2420 mg/m3 Acetone (CAS 67-64-1) STEL 2420 mg/m3 Amyl Acetate (CAS STEL 540 mg/m3 628-63-7) 100 ppm 100 ppm Arwyl Acetate (CAS STEL 540 mg/m3 628-63-7) 100 ppm 100 ppm Carbon dioxide (CAS STEL 5474 mg/m3 124-38-9) 100 ppm 100 ppm Cyclohexylmethane (CAS TWA 1633 mg/m3 168-87-2) 100 ppm		STEL	4800 mg/m3
STEL			2000 ppm
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124-38-9)	Carbon dioxide (CAS	TWA	• •
5000			•
			5000 ppm
Cyclohexylmethane (CAS TWA 500 mg/m3 108-87-2)		TWA	500 mg/m3

Croatia. Dangerous Substance Exp Components	osure Limit Values in the Wo Type	rkplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09 Value
Acetone (CAS 67-64-1)	MAC	1210 mg/m3
		500 ppm
	STEL	3620 mg/m3
	_	1500 ppm
Amyl Acetate (CAS	MAC	270 mg/m3
628-63-7)	1017 (3	270 mg/mo
,		50 ppm
	STEL	540 mg/m3
	0.12	100 ppm
Carbon dioxide (CAS	MAC	9000 mg/m3
124-38-9)	MAG	9000 mg/ms
33 3,		5000 ppm
Czech Republic. OELs. Governmen	t Decree 361	
Components	Туре	Value
2-Methyl Butyl Acetate (CAS 624-41-9)	Ceiling	540 mg/m3
(CAS 024-41-9)	TWA	270 mg/m3
A + (OAO 07 04 4)		
Acetone (CAS 67-64-1)	Ceiling	1500 mg/m3
	TWA	800 mg/m3
Amyl Acetate (CAS	Ceiling	540 mg/m3
628-63-7)	T)A/A	070
0 1 11 10 10 10	TWA	270 mg/m3
Carbon dioxide (CAS	Ceiling	45000 mg/m3
124-38-9)	TWA	9000 mg/m3
Cyclohexylmethane (CAS	Ceiling	2000 mg/m3
108-87-2)	Cennig	2000 Hig/His
,	TWA	1500 mg/m3
Denmark. Exposure Limit Values		
Components	Туре	Value
2-Methyl Butyl Acetate	TLV	271 mg/m3
(CAS 624-41-9)	I L V	27 i mg/m3
(3/13/32/11/3)		50 ppm
Acetone (CAS 67-64-1)	TLV	600 mg/m3
7.00.0110 (07.0 07 01 1)		250 ppm
Amyl Apotato (CAC	TLV	
Amyl Acetate (CAS 628-63-7)	ILV	271 mg/m3
020-03-7)		50 ppm
Carbon diavida (CAC	TLV	
Carbon dioxide (CAS 124-38-9)	ILV	9000 mg/m3
124-30-9)		5000 ppm
Cyclobayadaaathaaa (CAC	TLV	···
Cyclohexylmethane (CAS 108-87-2)	TLV	805 mg/m3
100-07-2)		200 ppm
Fatania OFI a Consumptional Fund	ours Limits of Hosendaus Cub	• •
ESIOIIIA. OELS. OCCUDALIOIIAI EXDO:	sure Limits of Hazardous Sur	ostances. (Annex of Regulation No. 293 of 18 September
2001)	Type	Value
2001) Components	Туре	Value
2001) Components	Type TWA	1210 mg/m3
2001) Components Acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS		1210 mg/m3
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS	TWA	1210 mg/m3 500 ppm 9000 mg/m3
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9)	TWA	1210 mg/m3 500 ppm 9000 mg/m3 5000 ppm
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS	TWA	1210 mg/m3 500 ppm 9000 mg/m3
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS	TWA	1210 mg/m3 500 ppm 9000 mg/m3 5000 ppm 1600 mg/m3
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2)	TWA TWA	1210 mg/m3 500 ppm 9000 mg/m3 5000 ppm
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Finland. Workplace Exposure Limit	TWA TWA TWA	1210 mg/m3 500 ppm 9000 mg/m3 5000 ppm 1600 mg/m3 400 ppm
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Finland. Workplace Exposure Limit	TWA TWA	1210 mg/m3 500 ppm 9000 mg/m3 5000 ppm 1600 mg/m3
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Finland. Workplace Exposure Limit Components	TWA TWA TWA	1210 mg/m3 500 ppm 9000 mg/m3 5000 ppm 1600 mg/m3 400 ppm
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Finland. Workplace Exposure Limit	TWA TWA TWA TWA	1210 mg/m3 500 ppm 9000 mg/m3 5000 ppm 1600 mg/m3 400 ppm
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Finland. Workplace Exposure Limit Components 2-Methyl Butyl Acetate	TWA TWA TWA TWA S Type STEL	1210 mg/m3 500 ppm 9000 mg/m3 5000 ppm 1600 mg/m3 400 ppm
2001) Components Acetone (CAS 67-64-1) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Finland. Workplace Exposure Limit Components 2-Methyl Butyl Acetate	TWA TWA TWA TWA	1210 mg/m3 500 ppm 9000 mg/m3 5000 ppm 1600 mg/m3 400 ppm Value 540 mg/m3

Finland. Workplace Exposure Lin Components	nits Type	Value
Acetone (CAS 67-64-1)	STEL	1500 mg/m3 630 ppm
	TWA	1200 mg/m3
	1 **/	500 ppm
Amyl Acetate (CAS 628-63-7)	STEL	540 mg/m3
		100 ppm
	TWA	270 mg/m3
		50 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9100 mg/m3
Overlah dua th (OAO	OTEL	5000 ppm
Cyclohexylmethane (CAS 108-87-2)	STEL	2000 mg/m3
		500 ppm
	TWA	1600 mg/m3
		400 ppm
France. Threshold Limit Values (*Components	VLEP) for Occupational Expo Type	sure to Chemicals in France, INRS ED 984 Value
Acetone (CAS 67-64-1)	VLE	2420 mg/m3
ACEIDIE (OAS 07-04-1)	VLL	1000 ppm
	VME	1210 mg/m3
	· ··· <u> </u>	500 ppm
Amyl Acetate (CAS	VLE	540 mg/m3
628-63-7)		ŭ
		100 ppm
	VME	270 mg/m3
		50 ppm
Carbon dioxide (CAS 124-38-9)	VME	9000 mg/m3
124-30-3)		5000 ppm
Cyclohexylmethane (CAS	VME	1600 mg/m3
108-87-2)		
		400 ppm
	y OELs). Commission for the	Investigation of Health Hazards of Chemical Compounds
in the Work Area (DFG) Components	Туре	Value
2-Methyl Butyl Acetate	TWA	270 mg/m3
(CAS 624-41-9)		50 ppm
Acetone (CAS 67-64-1)	TWA	1200 mg/m3
7.66.67.6 (67.6-67-67-1)		500 ppm
Amyl Acetate (CAS	TWA	270 mg/m3
628-63-7)		3
		50 ppm
Carbon dioxide (CAS	TWA	9100 mg/m3
124-38-9)		5000 ppm
Cyclohexylmethane (CAS	TWA	810 mg/m3
108-87-2)	1 **/	oro mg/mo
		200 ppm
Germany. TRGS 900, Limit Value	s in the Ambient Air at the Wo	orkplace
Components	Туре	Value
2-Methyl Butyl Acetate	AGW	270 mg/m3
(CAS 624-41-9)		· ·
		50 ppm
Acetone (CAS 67-64-1)	AGW	1200 mg/m3
A 1A 11 (222	4000	500 ppm
Amyl Acetate (CAS	AGW	270 mg/m3
628-63-7)		50 ppm
Carbon dioxide (CAS	AGW	9100 mg/m3
124-38-9)		<u> </u>

Components	Туре	Value	
		5000 ppm	
Cyclohexylmethane (CAS	AGW	810 mg/m3	
108-87-2)		5.5 mg/mc	
		200 ppm	
Greece. OELs (Decree No. 90/199	9, as amended)		
Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	3560 mg/m3	
	TWA	1780 mg/m3	
Amyl Acetate (CAS	STEL	800 mg/m3	
628-63-7)	0.22	oco mg/me	
		150 ppm	
	TWA	530 mg/m3	
		100 ppm	
Carbon dioxide (CAS	STEL	54000 mg/m3	
124-38-9)		-	
		5000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Cyclohexylmethane (CAS	STEL	2000 mg/m3	
108-87-2)			
		500 ppm	
	TWA	2000 mg/m3	
		500 ppm	
Hungary. OELs. Joint Decree on (Chemical Safety of Workplaces	3	
Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	2420 mg/m3	
,	TWA	1210 mg/m3	
Amyl Acetate (CAS	STEL	540 mg/m3	
628-63-7)	3122	o to mg/me	
•	TWA	270 mg/m3	
Carbon dioxide (CAS	TWA	9000 mg/m3	
124-38-9)			
celand. OELs. Regulation 154/19	99 on occupational exposure		
^	T		
Components	Туре	Value	
2-Methyl Butyl Acetate	Type STEL	540 mg/m3	
		540 mg/m3	
2-Methyl Butyl Acetate	STEL	540 mg/m3 100 ppm	
2-Methyl Butyl Acetate		540 mg/m3 100 ppm 266 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9)	STEL	540 mg/m3 100 ppm 266 mg/m3 50 ppm	
2-Methyl Butyl Acetate	STEL	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1)	STEL TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS	STEL	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1)	STEL TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS	STEL TWA TWA STEL	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS	STEL TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3	
2-Methyl Butyl Acetate CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7)	STEL TWA TWA STEL TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS	STEL TWA TWA STEL	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3	
2-Methyl Butyl Acetate CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7)	STEL TWA TWA STEL TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS 124-38-9)	STEL TWA TWA STEL TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS	STEL TWA TWA STEL TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS	STEL TWA TWA STEL TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) reland. Occupational Exposure L	STEL TWA TWA STEL TWA TWA TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3 5000 ppm 805 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2)	STEL TWA TWA STEL TWA TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3 5000 ppm 805 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) reland. Occupational Exposure L Components	STEL TWA TWA STEL TWA TWA TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3 5000 ppm 805 mg/m3 200 ppm	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) reland. Occupational Exposure L	STEL TWA TWA STEL TWA TWA TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3 5000 ppm 805 mg/m3 200 ppm Value 1210 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) reland. Occupational Exposure L Components Acetone (CAS 67-64-1)	STEL TWA TWA STEL TWA TWA TWA TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3 5000 ppm 805 mg/m3 200 ppm Value 1210 mg/m3 500 ppm	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) reland. Occupational Exposure L Components	STEL TWA TWA STEL TWA TWA TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3 5000 ppm 805 mg/m3 200 ppm Value 1210 mg/m3	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) reland. Occupational Exposure L Components Acetone (CAS 67-64-1) Amyl Acetate (CAS	STEL TWA TWA STEL TWA TWA TWA TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3 5000 ppm 805 mg/m3 200 ppm Value 1210 mg/m3 500 ppm	
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) reland. Occupational Exposure L Components Acetone (CAS 67-64-1) Amyl Acetate (CAS	STEL TWA TWA STEL TWA TWA TWA TWA TWA	540 mg/m3 100 ppm 266 mg/m3 50 ppm 600 mg/m3 250 ppm 540 mg/m3 100 ppm 266 mg/m3 50 ppm 9000 mg/m3 5000 ppm 805 mg/m3 200 ppm Value 1210 mg/m3 500 ppm 540 mg/m3	

Ireland. Occupational Exposure Li Components	mits Type	Value	
Carbon dioxide (CAS	STEL	27000 mg/m3	
124-38-9)		15000 ppm	
	TWA	9000 mg/m3	
	IWA	5000 mg/m3 5000 ppm	
Cyclohexylmethane (CAS	TWA	1600 mg/m3	
108-87-2)		•	
	_	400 ppm	
Italy. Occupational Exposure Limi [.] Components	ts Type	Value	
2-Methyl Butyl Acetate	STEL	100 ppm	
(CAS 624-41-9)		ree pp	
	TWA	50 ppm	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Amyl Acetate (CAS 628-63-7)	STEL	540 mg/m3	
20-00-1)		100 ppm	
	TWA	270 mg/m3	
		50 ppm	
Carbon dioxide (CAS	TWA	9000 mg/m3	
24-38-9)		Č	
		5000 ppm	
Cyclohexylmethane (CAS 08-87-2)	TWA	400 ppm	
_atvia. OELs. Occupational expos	ure limit values of chemical s	ubstances in work environment	
Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Amyl Acetate (CAS 628-63-7)	STEL	540 mg/m3	
,		100 ppm	
	TWA	270 mg/m3	
		50 ppm	
Carbon dioxide (CAS	TWA	9000 mg/m3	
(24-38-9)		5000 ppm	
ithuania. OELs. Limit Values for	Chemical Substances, Gener	••	
Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	2420 mg/m3	
•		1000 ppm	
	TWA	1210 mg/m3	
		500 ppm	
		···	
	STEL	540 mg/m3	
	STEL	-	
		100 ppm	
	STEL	100 ppm 270 mg/m3	
S28-63-7) Carbon dioxide (CAS		100 ppm	
628-63-7) Carbon dioxide (CAS	TWA	100 ppm 270 mg/m3 50 ppm 9000 mg/m3	
Carbon dioxide (CAS 124-38-9)	TWA TWA	100 ppm 270 mg/m3 50 ppm 9000 mg/m3 5000 ppm	
Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS	TWA	100 ppm 270 mg/m3 50 ppm 9000 mg/m3	
Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Luxembourg. Binding Occupation	TWA TWA TWA al exposure limit values (Anno	100 ppm 270 mg/m3 50 ppm 9000 mg/m3 5000 ppm 50 mg/m3	
Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Luxembourg. Binding Occupation	TWA TWA TWA al exposure limit values (Anno Type	100 ppm 270 mg/m3 50 ppm 9000 mg/m3 5000 ppm 50 mg/m3 ex I), Memorial A Value	
Amyl Acetate (CAS 628-63-7) Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1)	TWA TWA TWA al exposure limit values (Anno	100 ppm 270 mg/m3 50 ppm 9000 mg/m3 5000 ppm 50 mg/m3 ex I), Memorial A Value 1210 mg/m3	
Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1)	TWA TWA TWA al exposure limit values (Anno Type TWA	100 ppm 270 mg/m3 50 ppm 9000 mg/m3 5000 ppm 50 mg/m3 ex I), Memorial A Value 1210 mg/m3 500 ppm	
Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1) Amyl Acetate (CAS	TWA TWA TWA al exposure limit values (Anno Type	100 ppm 270 mg/m3 50 ppm 9000 mg/m3 5000 ppm 50 mg/m3 ex I), Memorial A Value 1210 mg/m3	
Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1)	TWA TWA TWA al exposure limit values (Anno Type TWA STEL	100 ppm 270 mg/m3 50 ppm 9000 mg/m3 5000 ppm 50 mg/m3 ex I), Memorial A Value 1210 mg/m3 500 ppm 540 mg/m3 100 ppm	
Carbon dioxide (CAS 124-38-9) Cyclohexylmethane (CAS 108-87-2) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1) Amyl Acetate (CAS	TWA TWA TWA al exposure limit values (Anno Type TWA	100 ppm 270 mg/m3 50 ppm 9000 mg/m3 5000 ppm 50 mg/m3 ex I), Memorial A Value 1210 mg/m3 500 ppm 540 mg/m3	

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A			
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
		5000 ppm	

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

Schedules I and V)			
Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Amyl Acetate (CAS 628-63-7)	STEL	540 mg/m3	
,		100 ppm	
	TWA	270 mg/m3	
		50 ppm	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
,		5000 ppm	
Netherlands. OELs (binding)			
Components	Туре	Value	
2-Methyl Butyl Acetate (CAS 624-41-9)	STEL	530 mg/m3	
Acetone (CAS 67-64-1)	STEL	2420 mg/m3	
,	TWA	1210 mg/m3	
Amyl Acetate (CAS 628-63-7)	STEL	530 mg/m3	
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3	
Norway. Administrative Norms fo	r Contaminants in the Workpla	nce	
Components	Туре	Value	
Acetone (CAS 67-64-1)	TLV	295 mg/m3	
,		125 ppm	
Amyl Acetate (CAS 628-63-7)	TLV	260 mg/m3	
,		50 ppm	
Carbon dioxide (CAS 124-38-9)	TLV	9000 mg/m3	
,		5000 ppm	
Cyclohexylmethane (CAS 108-87-2)	TLV	800 mg/m3	
,		200 ppm	

Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1

Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	1800 mg/m3
	TWA	600 mg/m3
Amyl Acetate (CAS 628-63-7)	STEL	500 mg/m3
	TWA	250 mg/m3
Carbon dioxide (CAS 124-38-9)	STEL	27000 mg/m3
	TWA	9000 mg/m3
Cyclohexylmethane (CAS 108-87-2)	STEL	3000 mg/m3
	TWA	1600 mg/m3

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

Components	туре	value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Amyl Acetate (CAS 628-63-7)	STEL	540 mg/m3	
,		100 ppm	
	TWA	270 mg/m3	

Components	Туре	Value
		50 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
124-50-5)		5000 ppm
Portugal. VLEs. Norm on occupa		
Components	Туре	Value
2-Methyl Butyl Acetate (CAS 624-41-9)	STEL	100 ppm
	TWA	50 ppm
Acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Amyl Acetate (CAS	STEL	100 ppm
628-63-7)	TWA	50 ppm
Carbon dioxide (CAS	STEL	30000 ppm
124-38-9)	0.22	ососо ррш
	TWA	5000 ppm
Cyclohexylmethane (CAS 108-87-2)	TWA	400 ppm
Romania. OELs. Protection of wo	rkers from exposure to chemi	ical agents at the workplace
Components	Type	Value
Acetone (CAS 67-64-1)	TWA	1210 mg/m3
,		500 ppm
Amyl Acetate (CAS 628-63-7)	STEL	540 mg/m3
,		100 ppm
	TWA	270 mg/m3
		50 ppm
Carbon dioxide (CAS	TWA	9000 mg/m3
124-38-9)		
	077	5000 ppm
Cyclohexylmethane (CAS 108-87-2)	STEL	1500 mg/m3
.00 07 27		375 ppm
	TWA	1200 mg/m3
		211 ppm
Slovakia. OELs. Regulation No. 3	00/2007 concerning protection	n of health in work with chemical agents
Components	Туре	Value
Acetone (CAS 67-64-1)	TWA	1210 mg/m3
,		500 ppm
Amyl Acetate (CAS	STEL	540 mg/m3
628-63-7)		100 nnm
	TWA	100 ppm
	IVVA	270 mg/m3
Carbon dioxide (CAS	TWA	50 ppm 9000 mg/m3
124-38-9)	IVVA	9000 Hig/HiS
,		5000 ppm
Cyclohexylmethane (CAS 108-87-2)	STEL	1620 mg/m3
•		400 ppm
	TWA	810 mg/m3
		200 ppm
Slovenia. OELs. Regulations con (Official Gazette of the Republic o		against risks due to exposure to chemicals while workin
Components	Туре	Value
	TWA	270 mg/m3
2-Methyl Butyl Acetate	1 4 4 7	_ · · · · · · · · · · · · · · · · · · ·
	IWA	•
(CAS 624-41-9)		50 ppm
2-Methyl Butyl Acetate (CAS 624-41-9) Acetone (CAS 67-64-1)	TWA	•

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

Value

Type

Amyl Acetate (CAS 628-63-7)	TWA	270 mg/m3
020-03-7)		50 nnm
		50 ppm
Carbon dioxide (CAS 124-38-9)	TWA	9000 mg/m3
		5000 ppm
Cyclohexylmethane (CAS	TWA	2000 mg/m3
108-87-2)		500 ppm
Spain. Occupational Exposure Limits		
Components	Туре	Value
2-Methyl Butyl Acetate	STEL	540 mg/m3
(CAS 624-41-9)	0	5 15 mg/ms
		100 ppm
	TWA	270 mg/m3
		50 ppm
Acetone (CAS 67-64-1)	TWA	1210 mg/m3
tectoric (enteror of 1)	1 4471	500 ppm
	OTEL	• •
Amyl Acetate (CAS	STEL	540 mg/m3
628-63-7)		100 ppm
	T10/ 0	• •
	TWA	270 mg/m3
		50 ppm
Carbon dioxide (CAS	TWA	9150 mg/m3
124-38-9)		5000
		5000 ppm
Cyclohexylmethane (CAS	TWA	1630 mg/m3
08-87-2)		400 ppm
Sundan OFI a Work Environment Av	therity (AM) Occupational F	
Sweden. OELs. Work Environment Au Components	Type	Value
2-Methyl Butyl Acetate (CAS 624-41-9)	Ceiling	540 mg/m3
		100 ppm
	TWA	270 mg/m3
		50 ppm
Acetone (CAS 67-64-1)	STEL	1200 mg/m3
ncetone (OAO 01-04-1)	OTEL	
	T1444	500 ppm
	TWA	600 mg/m3
		250 ppm
Amyl Acetate (CAS	Ceiling	540 mg/m3
628-63-7)		400
		100 ppm
	TWA	270 mg/m3
		50 ppm
Carbon dioxide (CAS 24-38-9)	STEL	18000 mg/m3
.2.303)		10000 ppm
	T10/ 0	
	TWA	9000 mg/m3
		5000 ppm
Switzerland. SUVA Grenzwerte am Arl	beitsplatz	
Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	2400 mg/m3
Acetone (CAS 07-04-1)		1000 ppm
acetone (CAS 07-04-1)		• •
acetone (CAS 67-04-1)	TWA	1200 mg/m3
icelone (CAS 07-04-1)	TWA	1200 mg/m3 500 ppm
		500 ppm
Carbon dioxide (CAS	TWA TWA	-
Carbon dioxide (CAS 124-38-9)		500 ppm 9000 mg/m3
Carbon dioxide (CAS		500 ppm

Components

Switzerland. SUVA Grer Components	Туј		Val	ue	
<u> </u>			900	ppm	
	TW	/ A		0 mg/m3	
	1 4 4			ppm	
III/ EII/O W			400	ррш	
UK. EH40 Workplace Ex Components	posure Limits (WELS). Typ		Val		
Acetone (CAS 67-64-1)	ST	EL		0 mg/m3	
				0 ppm	
	TW	/A		0 mg/m3	
				ppm	
Carbon dioxide (CAS 124-38-9)	ST	EL	274	.00 mg/m3	
				00 ppm	
	TW	/A		0 mg/m3	
			500	0 ppm	
EU. Indicative Exposure	Limit Values in Direct	tives 91/322/EEC, 2	000/39/EC, 2006/	15/EC, 2009/161/EU	
Components	Тур		Val		
Acetone (CAS 67-64-1)	TW	/A	121	0 mg/m3	
			500	ppm	
Amyl Acetate (CAS 628-63-7)	ST	EL	540	mg/m3	
				ppm	
	TW	/A		mg/m3	
				opm	
Carbon dioxide (CAS	TW	/A	900	0 mg/m3	
124-38-9)					
124-38-9)			500	0 ppm	
,			500	0 ppm	
ogical limit values	s Substance Exposure	e Limit Values at W			
ogical limit values Croatia. BLV. Dangerou	s Substance Exposure Value	e Limit Values at W Determinant			
ogical limit values Croatia. BLV. Dangerou Components			orkplace, Annexo Specimen Creatinine in	es 4 (as amended)	
ogical limit values Croatia. BLV. Dangerou Components	Value 20 mg/g	Determinant Acetone	orkplace, Annexo Specimen Creatinine in urine	es 4 (as amended) Sampling time	
ogical limit values Croatia. BLV. Dangerou Components Acetone (CAS 67-64-1)	Value 20 mg/g 20 mg/l	Acetone Acetone	orkplace, Annexe Specimen Creatinine in urine Blood	es 4 (as amended) Sampling time	
ogical limit values Croatia. BLV. Dangerou Components	Value 20 mg/g	Determinant Acetone	orkplace, Annexo Specimen Creatinine in urine	es 4 (as amended) Sampling time *	

Components	Value	Determinant	Specimen	Sampling time	
Acetone (CAS 67-64-1)	20 mg/g	Acetone	Creatinine in urine	*	
	20 mg/l	Acetone	Blood	*	
	0,34 mmol/l	Acetone	Blood	*	
	38,95 mmol/mol	Acetone	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

France. Biological indica	ators of exposure	(IBE) (National Institute	e for Research a	and Security (INRS, ND 2065)	
Components	Value	Determinant	Specimen	Sampling time	
Acetone (CAS 67-64-1)	100 mg/l	Acétone	Urine	*	
* - For sampling details, p	lease see the sour	ce document.			
Germany. TRGS 903, BA	T List (Biological	Limit Values)			
Components	Value	Determinant	Specimen	Sampling time	

Urine

80 mg/l

Acetone (CAS 67-64-1)

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

Aceton

Components	Value	Determinant	Specimen	Sampling time
Acetone (CAS 67-64-1)	53,36 mg/g	Acetone	Creatinine in urine	*
	80 mg/l	Acetone	Urine	*

^{* -} 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 (CAS 67-64-1)	50 mg/l	Acetona	Urine	*	

^{* -} For sampling details, please see the source document.

^{* -} 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 (CAS 67-64-1) 80 mg/l Aceton Urine *

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

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) 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. Eye wash fountain and emergency showers are recommended.

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).

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.
 - Other Wear appropriate chemical resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

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

Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Gas.
Form Aerosol

Colour Clear. Colourless.

Odour Characteristic.

Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point < 23,0 °C (< 73,4 °F)

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapour pressureNot available.Vapour densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot explosive.Oxidising propertiesNot oxidising.

9.2. Other informationNo relevant additional information available.

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 temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials Acids. Strong oxidising agents.

10.6. Hazardous Carbon oxides.

decomposition products

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 and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

Skin contact Causes skin irritation.

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 and dizziness. Headache. Nausea, vomiting. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May

cause redness and pain.

11.1. Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components Species Test results

Hydrocarbons, C7, N-Alkanes, Isoalkanes, Cyclics (CAS 64742-49-0)

Acute Dermal

LD50 Rabbit > 1900 mg/kg, 24 Hours

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation This product is not expected to cause skin sensitisation.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens

Acetone (CAS 67-64-1) Not classifiable as a human carcinogen. A4

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Hydrocarbons, C7, N-Alkanes, Isoalkanes, Cyclics (CAS 64742-49-0)

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not likely, due to the form of the product.

Mixture versus substance

information

No information available.

mormation

Other information None known.

SECTION 12: Ecological information

12.1. ToxicityToxic to aquatic life with long lasting effects. Due to partial or complete lack of data the

classification for hazardous to the aquatic environment, acute hazard, is not possible.

Components Species Test results

Acetone (CAS 67-64-1)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 10294 - 17704 mg/l, 48 hours
Fish LC50 Rainbow trout,donaldson trout 4740 - 6330 mg/l, 96 hours

(Oncorhynchus mykiss)

Amyl Acetate (CAS 628-63-7)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 65 mg/l, 96 hours

Cyclohexylmethane (CAS 108-87-2)

Aquatic

Fish LC50 Striped bass (Morone saxatilis) 5,8 mg/l, 96 hours

12.2. Persistence and

degradability

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Acetone -0,24
Amyl Acetate 2,3
Cyclohexylmethane 3,61

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT Not

and vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste 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).

Contaminated packaging 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.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Hazard No. (ADR) Not available.

Tunnel restriction code D

14.4. Packing group Not available.

14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

RID

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)
Class 2.1
Subsidiary risk Label(s) 2.1

14.4. Packing group Not available.

14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)
Class 2.1

Subsidiary risk Label(s) 2.1

14.4. Packing group Not available.

14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk -

14.4. Packing group Not available.

14.5. Environmental hazards No. **ERG Code** 10L

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

Other information

Passenger and cargo Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard class(es)
Class 2.1
Subsidiary risk -

14.4. Packing group Not available.

14.5. Environmental hazards

Marine pollutant

No.

F-D, S-U

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk Not applicable.

according to Annex II of Marpol

and the IBC Code



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 (EC) No. 850/2004 On persistent organic pollutants, Annex I 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

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

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Acetone (CAS 67-64-1)

Hydrocarbons, C7, N-Alkanes, Isoalkanes, Cyclics (CAS 64742-49-0)

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

Hydrocarbons, C7, N-Alkanes, Isoalkanes, Cyclics (CAS 64742-49-0)

Other EU regulations

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

2-Methyl Butyl Acetate (CAS 624-41-9)

Acetone (CAS 67-64-1) Amyl Acetate (CAS 628-63-7) Cyclohexylmethane (CAS 108-87-2)

Other regulations Pregnant women should not work with the product, if there is the least risk of exposure. 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. Additional information is given in the Safety Data Sheet.

National regulations Follow national regulation for work with chemical agents. Young people under 18 years old are not

allowed to work with this product according to EU Directive 94/33/EC on the protection of young

people at work, as amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

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

R10 Flammable.

R11 Highly flammable.

R12 Extremely flammable.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin. R45 May cause cancer.

R46 May cause heritable genetic damage.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

None.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Revision information

Training information

Disclaimer

Follow training instructions when handling this material.

Rocol cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.