SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

LPS® EFX

of the mixture

Registration number

Synonyms None

01805, M01805 **Part Number** Issue date 27-February-2014

Version number 01

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

Identified uses A solvent degreaser designed to remove or dissolve grease, grime, oil and other oil-based

contaminants from a variety of substrates including automotive or miscellaneous metallic parts.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier Geocel Limited

Western Wood Way, Langage Science Park, Plympton, Company name

Address

Plymouth, PL7 5BG

United Kingdom

+44 (0)1752 202060 / +44 (0)1752 334384 **Telephone**

In Case of Emergency +001 703-527-3887

Manufacturer

Company name LPS Laboratories, a division of Illinois Tool Works, Inc. 4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.) **Address**

Website http://www.lpslabs.com e-mail sds@lpslabs.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;R11, Xn;R65, Xi;R36/38, R67, N;R50/53

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

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

Physical hazards

Flammable liquids Category 2 H225 - Highly flammable liquid and

vapour.

Health hazards

exposure

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

H319 - Causes serious eye

irritation.

Specific target organ toxicity - single Category 3 narcotic effects H336 - May cause drowsiness or

dizziness.

Aspiration hazard Category 1 H304 - May be fatal if swallowed

and enters airways.

Environmental hazards

Hazardous to the aquatic environment, acute Category 1 H400 - Very toxic to aquatic life.

aquatic hazard

Hazardous to the aquatic environment, H410 - Very toxic to aquatic life Category 1

long-term aquatic hazard with long lasting effects.

Hazard summary

Physical hazards Highly flammable.

Material name: LPS® EFX - LPS Laboratories (EU)

Health hazards Irritating to eyes and skin. Harmful: may cause lung damage if swallowed. Vapours may cause

drowsiness and dizziness. Occupational exposure to the substance or mixture may cause adverse

health effects.

Environmental hazards

Specific hazards

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Highly flammable. In use, may form flammable/explosive vapour-air mixture. Harmful: may cause

lung damage if swallowed. Irritating to eyes and skin. Do not breathe

dust/fume/gas/mist/vapors/spray. Very toxic to aquatic organisms, may cause long-term adverse

Main symptoms Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapours have a

narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and

pain.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended Contains: Acetone, Heptane, Isopropanol

Hazard pictograms



effects in the aquatic environment.

Signal word Danger

Hazard statements

H225 Highly 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.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P210 Keep container tightly closed. P233 Ground/bond container and receiving equipment. P240 Use explosion-proof electrical/ventilating/lighting equipment. P241 Use only non-sparking tools. P242 Take precautionary measures against static discharge. P243 Avoid breathing mist or vapour. P261 Wash thoroughly after handling. P264 Use only outdoors or in a well-ventilated area. P271

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

Response

P304 + P340

P391 Collect spillage.
P301 + P310 IF SWALLOWE
P303 + P361 + P353 IF ON SKIN (or

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

+ P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position 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 POISON CENTRE or doctor/physician if you feel unwell.

P312 Call a POISON CENTRE or doctor/physician i P321 Specific treatment (see this label).

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use appropriate media for extinction.

Storage

P235 Keep cool.

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

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information 20 % of the mixture consists of component(s) of unknown acute hazards to the aquatic

environment. 20 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

Material name: LPS® EFX - LPS Laboratories (EU)

01805, M01805 Version No.: 01 Issue date: 27-February-2014

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name

Heptane 80 - < 90 142-82-5 - 601-008-00-2 #

Classification: DSD: F;R11, Xn;R65, Xi;R38, R67, N;R50/53

%

CLP: Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Aquatic Acute

CAS-No. / EC No. REACH Registration No.

INDEX No.

Notes

1;H400, Aquatic Chronic 1;H410

Acetone 10 - < 20 67-64-1 - 606-001-00-8 #

200-662-2

Classification: DSD: F;R11, Xi;R36, R66-67

CLP: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336

Isopropanol 10 - < 20 67-63-0 - 603-117-00-0

200-661-7

Classification: DSD: F;R11, Xi;R36, R67

CLP: Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336

CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance.

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

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information Take off all contaminated clothing immediately. IF exposed or concerned: Get medical

advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTRE or doctor/physician if you feel unwell.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and

shoes. Get medical attention if symptoms occur.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Get medical attention immediately.

Ingestion Call a physician or poison control centre immediately. Only induce vomiting at the instruction of

medical personnel. Never give anything by mouth to an unconsious person. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and

delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapours have a narcotic effect and may cause headache,

fatigue, dizziness and nausea. May cause redness and pain.

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

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Highly flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing

media

Powder. Alcohol resistant foam. Dry sand. 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 from the substance or mixture

By heating and fire, harmful vapours/gases may be formed. In contact with water releases flammable gases which may ignite spontaneously.

Material name: LPS® EFX - LPS Laboratories (EU)

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. Structural firefighters protective clothing will only provide limited protection.

Special fire fighting procedures

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Fully encapsulating, vapour protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapours or mists. 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. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil etc) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. 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

Vapours may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not get in eyes, on skin, on clothing. Do not taste or swallow. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001

Components	Type	Value	
Acetone (CAS 67-64-1)	MAK	1200 mg/m3	
		500 ppm	
	STEL	4800 mg/m3	
		2000 ppm	
Isopropanol (CAS 67-63-0)	MAK	500 mg/m3	
		200 ppm	
	STEL	2000 mg/m3	
		800 ppm	

Material name: LPS® EFX - LPS Laboratories (EU) 01805, M01805 Version No.: 01 Issue date: 27-February-2014

Belgium. Exposure Limit Values. Components	Туре	Value
<u> </u>		
Acetone (CAS 67-64-1)	STEL	2420 mg/m3
	T) 4 / 4	1000 ppm
	TWA	1210 mg/m3
		500 ppm
Heptane (CAS 142-82-5)	STEL	2085 mg/m3
		500 ppm
	TWA	1664 mg/m3
		400 ppm
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
(2.10.0)		400 ppm
	TWA	500 mg/m3
	IVVA	200 ppm
Bulancia OFLa Bandatian Na 40 an a		* *
Bulgaria. OELs. Regulation No 13 on p Components	rotection of workers again Type	st risks of exposure to chemical agents at work Value
<u> </u>		
Acetone (CAS 67-64-1)	STEL	1400 mg/m3
	TWA	600 mg/m3
Heptane (CAS 142-82-5)	TWA	1600 mg/m3
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
1 -1 (- 1 2)	TWA	980 mg/m3
Cuprus OELo Control of footoms street		· ·
Cyprus. OELs. Control of factory atmo- Components	spnere and dangerous sur Type	ostances in factories regulation, PI 311/73, as amende Value
Acetone (CAS 67-64-1)	TWA	2400 mg/m3
		1000 ppm
Isopropagal (CAS 67 62 0)	TWA	980 mg/m3
sopropanol (CAS 67-63-0)	IVVA	
		400 ppm
Czech Republic. OELs. Government De Components	ecree 361 Type	Value
•		
Acetone (CAS 67-64-1)	Ceiling	1500 mg/m3
	TWA	800 mg/m3
Heptane (CAS 142-82-5)	Ceiling	2000 mg/m3
	TWA	1000 mg/m3
Isopropanol (CAS 67-63-0)	Ceiling	1000 mg/m3
	TWA	500 mg/m3
Denmark. Exposure Limit Values		•
Components	Туре	Value
<u> </u>		
Acetone (CAS 67-64-1)	TLV	600 mg/m3
		250 ppm
Heptane (CAS 142-82-5)	TLV	820 mg/m3
		200 ppm
Isopropanol (CAS 67-63-0)	TLV	490 mg/m3
•		200 ppm
•	Limits of Hazardous Sub	stances. (Annex of Regulation No. 293 of 18 Septemb
2001) Components	Туре	Value
Acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
		ουσ ρριιι
	Τ\Λ/Λ	2085 mg/m ²
	TWA	2085 mg/m3
Heptane (CAS 142-82-5)		500 ppm
Heptane (CAS 142-82-5)	TWA STEL	500 ppm 600 mg/m3
Heptane (CAS 142-82-5)		500 ppm 600 mg/m3 250 ppm
Heptane (CAS 142-82-5)		500 ppm 600 mg/m3
Heptane (CAS 142-82-5)	STEL	500 ppm 600 mg/m3 250 ppm 350 mg/m3
Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0)	STEL	500 ppm 600 mg/m3 250 ppm
Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Finland. Workplace Exposure Limits	STEL	500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm
Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Finland. Workplace Exposure Limits Components	STEL TWA Type	500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm
Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Finland. Workplace Exposure Limits Components	STEL	500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm Value 1500 mg/m3
Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Finland. Workplace Exposure Limits Components	STEL TWA Type STEL	500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm Value 1500 mg/m3 630 ppm
Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Finland. Workplace Exposure Limits Components Acetone (CAS 67-64-1)	STEL TWA Type	500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm Value 1500 mg/m3

Finland. Workplace Exposure Lim Components	Туре	Value
Heptane (CAS 142-82-5)	STEL	2100 mg/m3
	0.22	500 ppm
	TWA	1200 mg/m3
		300 ppm
Isopropanol (CAS 67-63-0)	STEL	620 mg/m3
,	0	250 ppm
	TWA	500 mg/m3
		200 ppm
France. Threshold Limit Values (V Components	LEP) for Occupational Expos Type	ure to Chemicals in France, INRS ED 984 Value
Acetone (CAS 67-64-1)	VLE	2420 mg/m3
		1000 ppm
	VME	1210 mg/m3
		500 ppm
Heptane (CAS 142-82-5)	VLE	2085 mg/m3
•		500 ppm
	VME	1668 mg/m3
		400 ppm
Isopropanol (CAS 67-63-0)	VLE	980 mg/m3
		400 ppm
Germany. DFG MAK List (advisory in the Work Area (DFG)	OELs). Commission for the	Investigation of Health Hazards of Chemical Compound
Components	Туре	Value
Acetone (CAS 67-64-1)	TWA	1200 mg/m3
,		500 ppm
Heptane (CAS 142-82-5)	TWA	2100 mg/m3
-,		500 ppm
Isopropanol (CAS 67-63-0)	TWA	500 mg/m3
Components Acetone (CAS 67-64-1)	Type AGW	Value 1200 mg/m3
Acetone (CAS 67-04-1)	AGW	500 ppm
Isopropanol (CAS 67-63-0)	AGW	500 mg/m3
	7.077	200 ppm
Grand OEL a (Daaraa Na. 90/1999) as amondad)	200 pp
Greece. OELs (Decree No. 90/1999 Components	o, as amended) Type	Value
Acetone (CAS 67-64-1)	STEL	3560 mg/m3
	TWA	1780 mg/m3
Heptane (CAS 142-82-5)	STEL	2000 mg/m3
		500 ppm
	TWA	2000 mg/m3
		500 ppm
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3
		400 ppm
		400 ppm
	Chemical Safety of Workplace Type	• •
Components	Туре	s Value
Components	Type STEL	Value 2420 mg/m3
Components Acetone (CAS 67-64-1)	Type STEL TWA	Value 2420 mg/m3 1210 mg/m3
Components Acetone (CAS 67-64-1)	Type STEL TWA STEL	Value 2420 mg/m3 1210 mg/m3 8000 mg/m3
Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	Type STEL TWA STEL TWA	2420 mg/m3 1210 mg/m3 8000 mg/m3 2000 mg/m3
Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	Type STEL TWA STEL TWA STEL STEL	2420 mg/m3 1210 mg/m3 8000 mg/m3 2000 mg/m3 2000 mg/m3
Hungary. OELs. Joint Decree on Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0)	Type STEL TWA STEL TWA STEL TWA STEL TWA	Value 2420 mg/m3 1210 mg/m3 8000 mg/m3 2000 mg/m3 2000 mg/m3 500 mg/m3
Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	Type STEL TWA STEL TWA STEL TWA STEL TWA	Value 2420 mg/m3 1210 mg/m3 8000 mg/m3 2000 mg/m3 2000 mg/m3 500 mg/m3
Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Iceland. OELs. Regulation 154/199	Type STEL TWA STEL TWA STEL TWA STEL TWA 99 on occupational exposure I	Value 2420 mg/m3 1210 mg/m3 8000 mg/m3 2000 mg/m3 2000 mg/m3 500 mg/m3

-	9 on occupational exposure I	X4.1
Components	Туре	Value
		250 ppm
Heptane (CAS 142-82-5)	TWA	820 mg/m3
		200 ppm
Isopropanol (CAS 67-63-0)	TWA	490 mg/m3
		200 ppm
Ireland. Occupational Exposure Li	mits	
Components	Туре	Value
Acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Heptane (CAS 142-82-5)	TWA	2085 mg/m3
		500 ppm
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Italy. Occupational Exposure Limi	ts	
Components	Type	Value
		4040 / 0
Acetone (CAS 67-64-1)	TWA	1210 mg/m3
Hantona (CAC 440 00 5)	T\A/A	500 ppm
Heptane (CAS 142-82-5)	TWA	2085 mg/m3
1 (010.07.00.0)	0.751	500 ppm
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
Latvia. OELs. Occupational expos		
Components	Туре	Value
Acetone (CAS 67-64-1)	TWA	1210 mg/m3
,		500 ppm
Heptane (CAS 142-82-5)	STEL	2085 mg/m3
		500 ppm
	TWA	350 mg/m3
		3 -
		85 ppm
Isopropanol (CAS 67-63-0)	STEL	85 ppm 600 mg/m3
Isopropanol (CAS 67-63-0)	STEL TWA	600 mg/m3
	TWA	600 mg/m3 350 mg/m3
Lithuania. OELs. Limit Values for	TWA Chemical Substances, Gener	600 mg/m3 350 mg/m3
Lithuania. OELs. Limit Values for Components	TWA Chemical Substances, Gener Type	600 mg/m3 350 mg/m3 al Requirements Value
Lithuania. OELs. Limit Values for Components	TWA Chemical Substances, Gener	600 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3
Lithuania. OELs. Limit Values for Components	TWA Chemical Substances, Gener Type STEL	600 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm
Lithuania. OELs. Limit Values for Components	TWA Chemical Substances, Gener Type	600 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1)	TWA Chemical Substances, Gener Type STEL TWA	600 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1)	TWA Chemical Substances, Gener Type STEL	600 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3
Lithuania. OELs. Limit Values for Components	TWA Chemical Substances, Gener Type STEL TWA STEL	600 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1)	TWA Chemical Substances, Gener Type STEL TWA	600 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	TWA Chemical Substances, Gener Type STEL TWA STEL TWA	600 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1)	TWA Chemical Substances, Gener Type STEL TWA STEL	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	TWA Chemical Substances, Gener Type STEL TWA STEL TWA	600 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 mg/m3
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0)	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA	600 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation Components	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA Type	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm ex I), Memorial A Value
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation Components	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 ppm 350 ppm 350 ppm 350 ppm 350 ppm 350 ppm 310 ppm 310 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1)	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 ppm 350 ppm 350 ppm 350 ppm 350 ppm 350 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation Components	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA Type	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm 350 mg/m3 150 ppm ex I), Memorial A Value 1210 mg/m3 500 ppm 2085 mg/m3
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1)	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 ppm 350 ppm 350 ppm 350 ppm 350 ppm 350 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Malta. OELs. Occupational Expose	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA TWA TWA	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm 350 mg/m3 150 ppm ex I), Memorial A Value 1210 mg/m3 500 ppm 2085 mg/m3
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Malta. OELs. Occupational Expost Schedules I and V)	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA TWA al exposure limit values (Anne Type TWA TWA TWA	600 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm 350 mg/m3 150 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Malta. OELs. Occupational Expose	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA TWA TWA	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm ex I), Memorial A Value 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Malta. OELs. Occupational Expost Schedules I and V) Components	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA TWA al exposure limit values (Annotype TWA TWA TWA TWA TWA TWA TWA TWA	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm 350 mg/m3 150 ppm 2x I), Memorial A Value 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm Coccupational Health and Safety Authority Act (CAP. 424) Value
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Malta. OELs. Occupational Exposis Schedules I and V)	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA TWA al exposure limit values (Anne Type TWA TWA TWA	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm 2x I), Memorial A Value 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm
Lithuania. OELs. Limit Values for Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0) Luxembourg. Binding Occupation Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Malta. OELs. Occupational Exposis Schedules I and V) Components	TWA Chemical Substances, Gener Type STEL TWA STEL TWA STEL TWA STEL TWA TWA al exposure limit values (Annotype TWA TWA TWA TWA TWA TWA TWA TWA	600 mg/m3 350 mg/m3 350 mg/m3 al Requirements Value 2420 mg/m3 1000 ppm 1210 mg/m3 500 ppm 3128 mg/m3 750 ppm 2085 mg/m3 500 ppm 600 mg/m3 250 ppm 350 mg/m3 150 ppm 350 mg/m3 150 ppm 2x I), Memorial A Value 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm Coccupational Health and Safety Authority Act (CAP. 424) Value

Netherlands. OELs (binding) Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	2420 mg/m3
(0.10 0. 0. 1)	TWA	1210 mg/m3
Heptane (CAS 142-82-5)	STEL	1600 mg/m3
Teptane (0/10 142-02-3)	TWA	1200 mg/m3
Nominative Nominative		-
Norway. Administrative Norms for Components	Type	value
Acetone (CAS 67-64-1)	TLV	295 mg/m3
		125 ppm
Heptane (CAS 142-82-5)	TLV	800 mg/m3
,		200 ppm
sopropanol (CAS 67-63-0)	TLV	245 mg/m3
, ,		100 ppm
Poland. MACs. Minister of Labour Working Environment	and Social Policy Regarding	Maximum Allowable Concentrations and Intensities
Components	Туре	Value
Acetone (CAS 67-64-1)	STEL	1800 mg/m3
	TWA	600 mg/m3
Hentane (CAS 142 92 5)	STEL	<u> </u>
Heptane (CAS 142-82-5)		2000 mg/m3
	TWA	1200 mg/m3
sopropanol (CAS 67-63-0)	STEL	1200 mg/m3
	TWA	900 mg/m3
Portugal. OELs. Decree-Law n. 29 Components	0/2001 (Journal of the Republ Type	ic - 1 Series A, n.266) Value
Acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
		обо ррии
Jontono (CAS 142 92 5)	T\\/ \	2005 mg/m2
Heptane (CAS 142-82-5)	TWA	2085 mg/m3
, ,		500 ppm
Portugal. VLEs. Norm on occupat	ional exposure to chemical ag	500 ppm ents (NP 1796)
Portugal. VLEs. Norm on occupat		500 ppm
Portugal. VLEs. Norm on occupat Components	ional exposure to chemical ag	500 ppm ents (NP 1796)
Heptane (CAS 142-82-5) Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1)	ional exposure to chemical ag Type	500 ppm ents (NP 1796) Value 750 ppm
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1)	ional exposure to chemical ag Type STEL TWA	500 ppm sents (NP 1796) Value 750 ppm 500 ppm
Portugal. VLEs. Norm on occupat Components	ional exposure to chemical ag Type STEL TWA STEL	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	ional exposure to chemical ag Type STEL TWA STEL TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1)	ional exposure to chemical ag Type STEL TWA STEL TWA STEL TWA STEL	500 ppm Jents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0)	STEL TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work	STEL TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components	Type STEL TWA TWA STEL TWA TWA STEL TWA TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm cal agents at the workplace Value
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	STEL TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm cal agents at the workplace Value 1210 mg/m3
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1)	STEL TWA TWA TWA TWA TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 210 ppm 1210 mg/m3 500 ppm
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of wor	Type STEL TWA TWA STEL TWA TWA STEL TWA TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm cal agents at the workplace Value 1210 mg/m3
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1)	STEL TWA TWA TWA TWA TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 210 ppm 1210 mg/m3 500 ppm
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA TABLE TWA TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 2110 mg/m3 500 ppm 2085 mg/m3 500 ppm
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1)	STEL TWA TWA TWA TWA TWA	500 ppm Jents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 210 mg/m3 500 ppm 2085 mg/m3 500 ppm 500 mg/m3
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA STEL TYPE TWA	500 ppm Jents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 210 mg/m3 500 ppm 2085 mg/m3 500 ppm 500 mg/m3 203 ppm
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA TABLE TWA TWA	500 ppm Jents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 200 ppm 201 agents at the workplace Value 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 500 mg/m3 203 ppm 200 mg/m3
Portugal. VLEs. Norm on occupate Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0)	STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA STEL TWA TWA TWA TWA TWA TWA TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 201 agents at the workplace Value 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 500 mg/m3 203 ppm 200 mg/m3 81 ppm
Portugal. VLEs. Norm on occupate Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0)	STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA TWA TWA TWA TWA STEL TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 200 ppm 200 ppm 201 ppm 201 ppm 202 ppm 203 ppm 204 ppm 205 ppm 206 ppm 207 ppm 2085 mg/m3 2085 mg/m3 2085 mg/m3 2085 ppm 2085 mg/m3
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0)	Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA TWA TWA STEL TWA TWA TWA STEL TWA TWA TWA STEL TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 200 ppm 201 mg/m3 500 ppm 2085 mg/m3 500 ppm 500 mg/m3 203 ppm 200 mg/m3 81 ppm of health in work with chemical agents Value
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0)	STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA TWA TWA TWA TWA STEL TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 201 ppm 202 ppm 203 ppm 204 ppm 205 ppm 206 ppm 207 ppm 2085 mg/m3 2085 mg/m3 208 ppm 209 mg/m3 209 ppm 200 mg/m3 201 ppm
Portugal. VLEs. Norm on occupate Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Slovakia. OELs. Regulation No. 30 Components Acetone (CAS 67-64-1)	Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA TWA TWA STEL TWA TWA TWA STEL TWA TWA TWA STEL TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 200 ppm 201 mg/m3 500 ppm 2085 mg/m3 500 ppm 500 mg/m3 203 ppm 200 mg/m3 81 ppm of health in work with chemical agents Value
Portugal. VLEs. Norm on occupat Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Slovakia. OELs. Regulation No. 30 Components	Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA TWA TWA STEL TWA TWA TWA STEL TWA TWA TWA STEL TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 201 ppm 202 ppm 203 ppm 204 ppm 205 ppm 206 ppm 207 ppm 2085 mg/m3 2085 mg/m3 208 ppm 209 mg/m3 209 ppm 200 mg/m3 201 ppm
Portugal. VLEs. Norm on occupate Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Slovakia. OELs. Regulation No. 30 Components Acetone (CAS 67-64-1)	Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA STEL TWA TWA TWA STEL TWA TWA TWA STEL TWA TWA STEL TWA TWA STEL TWA TWA STEL TWA TWA STEL TWA TWA STEL TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 200 ppm 201 ppm 202 ppm 203 ppm 2085 mg/m3 500 ppm 500 mg/m3 203 ppm 200 mg/m3 203 ppm 200 mg/m3 81 ppm of health in work with chemical agents Value 1210 mg/m3 500 ppm 2085 mg/m3
Portugal. VLEs. Norm on occupate Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Slovakia. OELs. Regulation No. 30 Components Acetone (CAS 67-64-1) Heptane (CAS 67-64-1) Heptane (CAS 142-82-5)	STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA STEL TWA TWA TWA STEL TWA TWA TWA STEL TWA TWA TWA STEL TWA TWA TWA TWA TWA TWA TWA TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 200 ppm 201 ppm 202 ppm 203 ppm 2085 mg/m3 500 ppm 500 mg/m3 203 ppm 200 mg/m3 81 ppm 200 mg/m3 81 ppm 201 of health in work with chemical agents Value 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm
Portugal. VLEs. Norm on occupate Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Slovakia. OELs. Regulation No. 30 Components Acetone (CAS 67-64-1) Heptane (CAS 67-64-1) Heptane (CAS 142-82-5)	Type STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA TWA STEL TWA TWA TWA STEL TWA TWA TWA STEL TWA TWA STEL TWA TWA STEL TWA TWA STEL TWA TWA STEL TWA TWA STEL TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 200 ppm 201 ppm 2085 mg/m3 500 ppm 500 mg/m3 203 ppm 200 mg/m3 81 ppm 200 mg/m3 81 ppm 101 mg/m3 500 ppm 2085 mg/m3 500 ppm 200 mg/m3 81 ppm 1000 mg/m3 500 ppm 1000 mg/m3
Portugal. VLEs. Norm on occupate Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Romania. OELs. Protection of work Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) sopropanol (CAS 67-63-0) Slovakia. OELs. Regulation No. 30 Components Acetone (CAS 67-64-1)	STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA STEL TWA TWA STEL TWA TWA TWA STEL TWA TWA TWA STEL TWA TWA TWA STEL TWA TWA TWA TWA TWA TWA TWA TWA	500 ppm yents (NP 1796) Value 750 ppm 500 ppm 500 ppm 400 ppm 400 ppm 200 ppm 200 ppm 200 ppm 201 ppm 202 ppm 203 ppm 2085 mg/m3 500 ppm 500 mg/m3 203 ppm 200 mg/m3 81 ppm 200 mg/m3 81 ppm 201 of health in work with chemical agents Value 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 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	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Heptane (CAS 142-82-5)	TWA	2085 mg/m3	
(0.15 1.2 5)		500 ppm	
sopropanol (CAS 67 63 0)	TWA	500 mg/m3	
sopropanol (CAS 67-63-0)	IVVA		
		200 ppm	
Spain. Occupational Exposure Lin	nits		
Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	1210 mg/m3	
		500 ppm	
Heptane (CAS 142-82-5)	TWA	2085 mg/m3	
Heptane (CAS 142-62-5)	IWA	500 ppm	
	CTEL		
sopropanol (CAS 67-63-0)	STEL	1000 mg/m3	
		400 ppm	
	TWA	500 mg/m3	
		200 ppm	
Sweden. Occupational Exposure I	Limit Values		
Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	1200 mg/m3	
	2	500 ppm	
	TWA	600 mg/m3	
	IWA		
L (OAO 07 00 0)	O.T.E.I	250 ppm	
sopropanol (CAS 67-63-0)	STEL	600 mg/m3	
		250 ppm	
	TWA	350 mg/m3	
		150 ppm	
		100 ppiii	
Switzerland. SUVA Grenzwerte am	n Arbeitsplatz	100 ррш	
	n Arbeitsplatz Type	Value	
Components	Туре	Value	
Components	-	Value 2400 mg/m3	
Components	Type STEL	Value 2400 mg/m3 1000 ppm	
Switzerland. SUVA Grenzwerte am Components Acetone (CAS 67-64-1)	Туре	Value 2400 mg/m3 1000 ppm 1200 mg/m3	
Components Acetone (CAS 67-64-1)	Type STEL TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm	
Components	Type STEL	Value 2400 mg/m3 1000 ppm 1200 mg/m3	
Components Acetone (CAS 67-64-1)	Type STEL TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm	
Components Acetone (CAS 67-64-1)	Type STEL TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm	
Components Acetone (CAS 67-64-1)	Type STEL TWA STEL	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3	
Acetone (CAS 67-64-1) sopropanol (CAS 67-63-0)	Type STEL TWA STEL TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm	
Components Acetone (CAS 67-64-1) Sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lir	Type STEL TWA STEL TWA mits (WELs)	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm	
Components Acetone (CAS 67-64-1) Sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lin	Type STEL TWA STEL TWA TWA mits (WELs) Type	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm	
Components Acetone (CAS 67-64-1)	Type STEL TWA STEL TWA mits (WELs)	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm	
Components Acetone (CAS 67-64-1) sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lin	Type STEL TWA STEL TWA TWA mits (WELs) Type	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm	
Components Acetone (CAS 67-64-1) sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lin	Type STEL TWA STEL TWA TWA mits (WELs) Type	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm	
Acetone (CAS 67-64-1) sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lin	Type STEL TWA STEL TWA mits (WELs) Type STEL	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm	
Acetone (CAS 67-64-1) sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Line Components Acetone (CAS 67-64-1)	Type STEL TWA STEL TWA mits (WELs) Type STEL TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm 1210 mg/m3 500 ppm	
Acetone (CAS 67-64-1) sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Line Components Acetone (CAS 67-64-1)	Type STEL TWA STEL TWA mits (WELs) Type STEL	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm 1210 mg/m3 500 ppm 2085 mg/m3	
Acetone (CAS 67-64-1) Sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lir Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	Type STEL TWA STEL TWA mits (WELs) Type STEL TWA TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm	
Acetone (CAS 67-64-1) Sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Line Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	Type STEL TWA STEL TWA mits (WELs) Type STEL TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 1250 mg/m3	
Acetone (CAS 67-64-1) sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lir Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	Type STEL TWA STEL TWA mits (WELs) Type STEL TWA TWA TWA STEL	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 1250 mg/m3 500 ppm	
Acetone (CAS 67-64-1) Sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lir Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	Type STEL TWA STEL TWA mits (WELs) Type STEL TWA TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 1250 mg/m3 500 ppm 1250 mg/m3 500 ppm	
Acetone (CAS 67-64-1) Sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lir Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5)	Type STEL TWA STEL TWA mits (WELs) Type STEL TWA TWA TWA STEL	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 1250 mg/m3 500 ppm	
Acetone (CAS 67-64-1) Sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lin Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Sopropanol (CAS 67-63-0)	Type STEL TWA STEL TWA mits (WELs) Type STEL TWA TWA TWA TWA STEL TWA STEL TWA STEL TWA STEL TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm 1210 mg/m3 500 ppm 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 1250 mg/m3 500 ppm 1250 mg/m3 500 ppm 1999 mg/m3 400 ppm	
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Acetone (CAS 67-64-1) Sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lin Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Sopropanol (CAS 67-63-0) EU. Indicative Exposure Limit Valu Components	Type STEL TWA STEL TWA mits (WELs) Type STEL TWA TWA TWA TWA STEL TWA STEL TWA STEL TWA STEL TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm 1250 mg/m3 500 ppm 999 mg/m3 400 ppm 2000/39/EC, 2006/15/EC, 2009/161/EU Value	
Acetone (CAS 67-64-1) Sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lin Components Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Sopropanol (CAS 67-63-0) EU. Indicative Exposure Limit Valu Components	Type STEL TWA STEL TWA mits (WELs) Type STEL TWA TWA TWA STEL TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 1250 mg/m3 500 ppm	
Acetone (CAS 67-64-1) Sopropanol (CAS 67-63-0) JK. EH40 Workplace Exposure Lincomponents Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Sopropanol (CAS 67-63-0)	Type STEL TWA STEL TWA mits (WELs) Type STEL TWA TWA TWA STEL TWA	Value 2400 mg/m3 1000 ppm 1200 mg/m3 500 ppm 1000 mg/m3 400 ppm 500 mg/m3 200 ppm Value 3620 mg/m3 1500 ppm 1210 mg/m3 500 ppm 2085 mg/m3 500 ppm 2085 mg/m3 500 ppm 1250 mg/m3 500 ppm 999 mg/m3 400 ppm 2000/39/EC, 2006/15/EC, 2009/161/EU Value	

Bio

Components	Value	Determinant	Specimen	Sampling time
Acetone (CAS 67-64-1)	100 mg/l	Acétone	Urine	*
* - For sampling details, plea	ase see the source d	locument.		
Germany. TRGS 903, BAT Components	List (Biological Lin Value	nit Values) Determinant	Specimen	Sampling time
Acetone (CAS 67-64-1)	80 mg/l	Aceton	Urine	*
Isopropanol (CAS 67-63-0)	_	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*
* - For sampling details, plea	ase see the source d	locument.		
Slovakia. BLVs (Biologica agents, Annex 2	I Limit Value). Regu	ılation no. 355/2006	concerning prot	ection of workers exposed to chemic
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, plea	•	locument.		
Spain. Biological Limit Va			mits for Chemic	al Δαents Table 4
Components	Value	Determinant	Specimen	Sampling time
Acetone (CAS 67-64-1)	50 mg/l	Acetona	Urine	*
Isopropanol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*
* - For sampling details, plea	ase see the source d	locument.		
Switzerland. BAT-Werte (E Components	Biological Limit Valu Value	ues in the Workplac Determinant	e as per SUVA) Specimen	Sampling time
Acetone (CAS 67-64-1)	80 mg/l	Aceton	Urine	*
Isopropanol (CAS 67-63-0)		Aceton	Urine	*
, ,	25 mg/l	Aceton	Blood	*
* - For sampling details, plea	ase see the source d	locument.		
commended monitoring	Follow standard	monitoring procedure	s.	
rived no-effect level (DNEL)	Not available.			
edicted no effect ncentrations (PNECs)	Not available.			
. Exposure controls				
propriate engineering ntrols	Provide adequate	e general and local e	xhaust ventilation	. Provide eyewash station.
lividual protection measure	s, such as personal	I protective equipme	ent	
General information	Personal protective equipment Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Use personal protective equipment as required.			
Eye/face protection	Do not get in eye recommended.	es. Wear safety glass	es with side shield	ds (or goggles). Eye wash fountain is
Skin protection				
- Hand protection	Chemical resista	nt gloves are recomn	nended.	
- Other		th the skin. Wear app		resistant clothing.
Respiratory protection		cient ventilation, wear	•	-
Thermal hazards	None known.	· , ·		
giene measures	When using, do i as washing after		I and before eatin	re good personal hygiene measures, su g, drinking, and/or smoking. Routinely
vironmental exposure	Contain spills an		nd observe nation	al regulations on emissions. Environme

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid. **Appearance Physical state** Liquid.

controls

Material name: LPS® EFX - LPS Laboratories (EU)

manager must be informed of all major releases.

Form Liquid. Colour Colorless Odour Characteristic. **Odour threshold** Not established Not applicable Not established Melting point/freezing point

range

Flash point -6,0 °C (21,2 °F) Tag closed cup -- dispensed liquid

9 %

60,5 °C (140,9 °F)

Evaporation rate 1,6 (Water = 1)Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits 1.5 % Flammability limit - lower

(%)

Flammability limit - upper

Initial boiling point and boiling

(%)

Not established Vapour pressure 2.8 estimated Vapour density Relative density Not available.

Solubility(ies)

Solubility (water) < 10 %

Solubility (other) Not available.

Partition coefficient > 1

(n-octanol/water)

306 °C (582,8 °F) **Auto-ignition temperature Decomposition temperature** Not established **Viscosity** < 3 cSt @ 25°C Not available. **Explosive properties** Oxidizing properties Not available.

9.2. Other information

Heat of combustion > 30 kJ/g100 % Percent volatile

0,65 - 0,68 @ 20°C Specific gravity

VOC (Weight %) 90 % per US State and Federal Consumer Product Regulations

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

10.4. Conditions to avoid

Hazardous polymerisation does not occur.

Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible

materials.

10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous

Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

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

Ingestion Harmful if swallowed. May be fatal if swallowed and enters airways.

Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Inhalation

Causes skin irritation. Skin contact

Eye contact Causes serious eye irritation.

Discomfort in the chest. Shortness of breath. Coughing. Narcosis. Behavioural changes. **Symptoms**

Decrease in motor functions. Skin irritation. Irritation of eyes and mucous membranes. Symptoms

of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

11.1. Information on toxicological effects

Acute toxicity	Narcotic effects. Harmful if swallowed.	
Components	Species	Test results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	> 15800 mg/kg
		20 ml/kg
Inhalation		
LC50	Rat	55700 ppm
		76 mg/l, 4 Hours
		50,1 mg/l
		50,1 mg/l, 8 Hours
Oral		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
		2,2 ml/kg
Other		
LD50	Mouse	1297 mg/kg
	Rat	5500 mg/kg
leptane (CAS 142-82-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 29,29 mg/l
		103 mg/l, 4 Hours
LD50	Mouse	75 mg/l, 2 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Other		
LD50	Mouse	222 mg/kg
sopropanol (CAS 67-63-0)		
Acute		
Dermal	Dahkit	12000 mg/kg
LD50	Rabbit	12800 mg/kg
		16,4 ml/kg
Inhalation	Det	> 10000 nnm
LC50	Rat	> 10000 ppm
<i>Oral</i> LD50	Dog	4707 ma/ka
LDJU	Dog Mouse	4797 mg/kg
		3600 mg/kg
	Rabbit	5,03 g/kg
	Rat	4,7 g/kg
Other	Maura	4500 mag/li
LD50	Mouse	1509 mg/kg
	Rat	1099 mg/kg
kin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye rritation	Causes serious eye irritation.	
Respiratory sensitisation	Based on available data, the classification crite	eria are not met.
Skin sensitisation	Based on available data, the classification criteria are not met.	

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

ACGIH Carcinogens

Not classifiable as a human carcinogen. A4 Acetone (CAS 67-64-1) Isopropanol (CAS 67-63-0) Not classifiable as a human carcinogen. A4

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

Specific target organ toxicity -

single exposure

Narcotic effects.

Specific target organ toxicity -

repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

Mixture versus substance

information

No information available.

None known. Other information

SECTION 12: Ecological information

12.1. Toxicity Very toxic to aquatic life with long lasting effects.

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 (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Heptane (CAS 142-82-5)			
Aquatic			
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/l, 96 hours
Isopropanol (CAS 67-63-0)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
12.2. Persistence and degradability	Not inher	ently biodegradable.	

aegradability

assessment

12.3. Bioaccumulative potential No data available.

Partition coefficient n-octanol/water (log Kow)

> LPS® EFX > 1 Acetone -0,24Heptane 4,66 Isopropanol 0,05

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available. 12.5. Results of PBT Not available. and vPvB

12.6. Other adverse effects

Not available.

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).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

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

disposal company.

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

and its container must be disposed of as hazardous waste. 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

General IMDG Regulated Marine Pollutant.

ADR

UN1993 14.1. UN number

14.2. UN proper shipping FLAMMABLE LIQUID, N.O.S. (Acetone, Heptane)

name

14.3. Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) 33 Hazard No. (ADR) Tunnel restriction code D/E Ш 14.4. Packing group 14.5. Environmental hazards Yes

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

RID

14.1. UN number UN1993

14.2. UN proper shipping FLAMMABLE LIQUID, N.O.S. (Acetone, Heptane)

name

14.3. Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) 14.4. Packing group Ш 14.5. Environmental hazards Yes

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

for user

ADN

14.1. UN number UN1993

Flammable Liquid 14.2. UN proper shipping

14.3. Transport hazard class(es)

Class 3 Subsidiary risk Label(s) 3 Ш 14.4. Packing group 14.5. Environmental hazards

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

for user

IATA

14.1. UN number UN1993

14.2. UN proper shipping Flammable liquid, n.o.s. (Acetone, Heptane)

name

14.3. Transport hazard class(es)

3 Class Subsidiary risk Ш 14.4. Packing group 14.5. Environmental hazards Yes **ERG Code**

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

for user

Other information

Passenger and cargo Allowed.

aircraft

Cargo aircraft only Allowed.

5-gal (01805) Cargo Aircraft Only

IMDG

14.1. UN number UN1993 14.2. UN proper shipping FLAMMABLE LIQUID, N.O.S. (Acetone, Heptane), MARINE POLLUTANT

name

14.3. Transport hazard class(es)

Class Subsidiary risk Ш 14.4. Packing group 14.5. Environmental hazards Marine pollutant Yes

F-E, S-E **EmS**

14.6. Special precautions

Not available.

for user

Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

ADN; ADR; IATA; IMDG; RID



Marine pollutant



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 Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

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

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 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

Regulation (EC) No. 1907/2006, REACH Article 59(1) 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)

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

Not listed

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Acetone (CAS 67-64-1) Heptane (CAS 142-82-5) Isopropanol (CAS 67-63-0)

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations
15.2. Chemical safety
assessment

Follow national regulation for work with chemical agents. 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

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 or R-phrases and H-statements under Sections 2 to 15

R11 Highly flammable.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

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.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Revision information No

Training information Follow training instructions when handling this material.

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other

materials or in any process, unless specified in the text.

Material name: LPS® EFX - LPS Laboratories (EU)

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