SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

LPS® Force 842

of the mixture

Registration number

Synonyms None.

Part Number 02516, M02516 Issue date 26-September-2015

Version number 02

Revision date 18-August-2016 Supersedes date 26-September-2015

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

Identified uses A fast evaporating dry-film lubricant designed for reducing sliding friction under high loads.

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier Alsco Ltd

Company name Unit 13 Hillmead Industrial Estate

Address Marshall Road

Swindon, Wiltshire

United Kingdom SN5 5FZ

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

Manufacturer

Company name ITW Pro Brands

Address 4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)

Website http://www.lpslabs.com
e-mail 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, Xn;R48/20, Xi;R36/38, R43-47-67, 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 Category 2 H319 - Causes serious eye

irritation.

Skin sensitisation Category 1 H317 - May cause an allergic skin reaction.

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Reproductive toxicity Category 2 H361 - Suspected of damaging

fertility or the unborn child.

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

dizziness.

Material name: LPS® Force 842 - ITW Pro Brands (EU)

02516, M02516 Version #: 02 Revision date: 18-August-2016 Issue date: 26-September-2015

Specific target organ toxicity - repeated exposure (inhalation)

Category 2 (nervous system)

H373 - May cause damage to organs (nervous system) through prolonged or repeated exposure by

inhalation.

Environmental hazards

Hazardous to the aquatic environment,

long-term aquatic hazard

Category 2

H411 - Toxic to aquatic life with

long lasting effects.

Hazard summary

Physical hazards Extremely flammable.

Health hazards Irritating to eyes and skin. May cause sensitisation by skin contact. May cause birth defects.

Harmful: danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness. Occupational exposure to the substance or mixture may

cause adverse health effects.

Environmental hazards

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

Specific hazards

None known.

Main symptoms

May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

2.2. Label elements

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

Contains: 1,2,4-Trimethyl benzene, 2,2-Dimethylbutane, 2,3-Dimethylbutane, 2-Methylpentane,

3-Methylpentane, Aromatic Solvent, Isopropanol, n-Hexane, Rosin based resin, Xylene

Hazard pictograms









Signal word Danger

Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurized container: May burst if heated.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.

H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs (nervous system) through prolonged or repeated exposure by

inhalation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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.

P260 Do not breathe gas.

P264 Wash thoroughly after handling.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with vand easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER/doctor if you feel unwell.

P333 + P313 If skin irritation or rash 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 None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
2-Methylpentane		20 - 30	107-83-5 203-523-4	-	601-007-00-7	
Classification:	DSD:	F;R11, Xn;R65,	Xi;R38, R67, N;R5	1/53		С
	CLP:	Flam. Liq. 2;H2: Aquatic Chronic		4, Skin Irrit. 2;H315, STOT SI	E 3;H336,	С
Isopropanol		20 - 30	67-63-0 200-661-7	-	603-117-00-0	
Classification:	DSD:	F;R11, Xi;R36,	R67			
	CLP:	Flam. Liq. 2;H2	25, Eye Irrit. 2;H319), STOT SE 3;H336		
Petroleum Gases, Liquef Sweetened	ied,	20 - 30	68476-86-8 270-705-8	-	649-203-00-1	
Classification: DS	DSD:	F+;R12, Carc. 0	Cat. 1;R45, Muta. C	at. 2;R46		K,S
	CLP:	Muta. 1B;H340,	Carc. 1A;H350			K,S,U
2,3-Dimethylbutane		5 - 10	79-29-8 201-193-6	-	601-007-00-7	
Classification:	DSD:	F;R11, Xn;R65,	Xi;R38, R67, N;R5	1/53		С
	CLP:	Flam. Liq. 2;H2: Aquatic Chronic		4, Skin Irrit. 2;H315, STOT SI	E 3;H336,	С
3-Methylpentane		5 - 10	96-14-0 202-481-4	-	601-007-00-7	
Classification:	DSD:	F;R11, Xn;R65,	Xi;R38, R67, N;R5	1/53		С
	CLP:	Flam. Liq. 2;H2: Aquatic Chronic		4, Skin Irrit. 2;H315, STOT SI	E 3;H336,	С
2,2-Dimethylbutane		1 - 5	75-83-2 200-906-8	-	601-007-00-7	
Classification:	DSD:	F;R11, Xn;R65,	Xi;R38, R67, N;R5	1/53		С
	CLP:	Flam. Liq. 2;H2: Aquatic Chronic		4, Skin Irrit. 2;H315, STOT SI	∃ 3;H336,	С
1,2,4-Trimethyl benzene		1 - 3	95-63-6 202-436-9	-	601-043-00-3	#
Classification:	DSD:	R10, Xn;R20, X	i;R36/37/38, N;R51	/53		

Flam. Liq. 3;H226, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Acute Tox. 4;H332,

STOT SE 3;H335, Aquatic Chronic 2;H411

CLP:

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Aromatic Solvent		1 - 3	64742-95-6 265-199-0	-	649-356-00-4	Note P
Classification:	DSD:	Carc. Cat. 2;R4	5, Muta. Cat. 2;R46	Xn;R65		Р
	CLP:	Asp. Tox. 1;H30 1B;H350)4, Acute Tox. 4;H3	2, Acute Tox. 3;H331, Muta.	1B;H340, Carc.	Р
n-Hexane		1 - 3	110-54-3 203-777-6	-	601-037-00-0	#
Classification:	DSD:	F;R11, Repr. Ca	at. 3;R62, Xn;R65-4	3/20, Xi;R38, R67, N;R51/53		
	CLP:		25, Asp. Tox. 1;H30 73, Aquatic Chronic	4, Skin Irrit. 2;H315, STOT SI 2;H411	∃ 3;H336,	
Rosin based resin		0,1 - 1	8050-09-7 232-475-7	-	650-015-00-7	
Classification:	DSD:	R43				
	CLP:	Acute Tox. 4;H3	302, Skin Sens. 1;H	317		
Xylene		< 1	1330-20-7 215-535-7	-	601-022-00-9	#
Classification:	DSD:	R10, Xn;R20/21	, Xi;R38			С
	CLP:	Flam. Liq. 3;H2: Aquatic Chronic		12, Skin Irrit. 2;H315, Acute T	ox. 4;H332,	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 K: 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 1,3-butadiene (EINECS No 203-450-8).

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).

Note S: This substance may not require a label according to Article 17 (see section 1.3 of Annex I) (Table 3.1). This substance may not require a label according to Article 23 of Directive 67/548/EEC (see section 8 of Annex VI to that Directive) (Table 3.2).

Note U: When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

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

SECTION 4: First aid measures

General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s)

involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. 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. Call a POISON

CENTRE or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Eye contact

Ingestion

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.

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. Narcosis. Headache. Nausea, vomiting. Behavioural changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

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

5.1. Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

5.2. Special hazards arising

from the substance or mixture 5.3. Advice for firefighters

> Special protective equipment for firefighters

Special fire fighting procedures

Specific methods

Extremely flammable aerosol.

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

During fire, gases hazardous to health may be formed.

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

Contents under pressure. Pressurised container may explode when exposed to heat or flame.

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

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

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

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. Do not breathe 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. Move the cylinder to a safe and open area if the leak is irreparable. 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. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurised container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. 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. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	MAK	100 mg/m3	
		20 ppm	
	STEL	150 mg/m3	
		30 ppm	
2,2-dimethylbutane (CAS 75-83-2)	MAK	715 mg/m3	
		200 ppm	
	STEL	2860 mg/m3	
		800 ppm	
2,3-Dimethylbutane (CAS 79-29-8)	MAK	715 mg/m3	
		200 ppm	
	STEL	2860 mg/m3	
		800 ppm	
2-Methylpentane (CAS 107-83-5)	MAK	715 mg/m3	
		200 ppm	
	STEL	2860 mg/m3	
		800 ppm	
3-Methylpentane (CAS 96-14-0)	MAK	715 mg/m3	
		200 ppm	
	STEL	2860 mg/m3	
		800 ppm	
Isopropanol (CAS 67-63-0)	MAK	500 mg/m3	
		200 ppm	
	STEL	2000 mg/m3	
		800 ppm	
n-Hexane (CAS 110-54-3)	MAK	72 mg/m3	
		20 ppm	
	STEL	288 mg/m3	
		80 ppm	
Xylene (CAS 1330-20-7)	MAK	221 mg/m3	
	0771	50 ppm	
	STEL	442 mg/m3	
		100 ppm	
Belgium. Exposure Limit Values.			
Components	Туре	Value	
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3	
		400 ppm	
	TWA	500 mg/m3	
		200 ppm	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
		20 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

SDS EU

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Components	Туре	Value	
,2,4-Trimethyl benzene CAS 95-63-6)	TWA	100 mg/m3	
,		20 ppm	
sopropanol (CAS 67-63-0)	STEL	1225 mg/m3	
	TWA	980 mg/m3	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
		20 ppm	
(ylene (CAS 1330-20-7)	STEL	442 mg/m3	
,		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Croatia. Dangerous Substance Exp Components	oosure Limit Values in the Wo Type	orkplace (ELVs), Annexes 1 ar Value	nd 2, Narodne Novine, 13/ Form
1,2,4-Trimethyl benzene CAS 95-63-6)	MAC	100 mg/m3	
·		20 ppm	
sopropanol (CAS 67-63-0)	MAC	999 mg/m3	
		400 ppm	
	STEL	1250 mg/m3	
		500 ppm	
n-Hexane (CAS 110-54-3)	MAC	72 mg/m3	
		20 ppm	
Rosin based resin (CAS 8050-09-7)	MAC	0,05 mg/m3	Fume.
	STEL	0,15 mg/m3	Fume.
(ylene (CAS 1330-20-7)	MAC	221 mg/m3	
		50 ppm	
	OTEL		
	STEL	442 mg/m3	
	STEL	442 mg/m3 100 ppm	
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Cyprus. OELs. Control of factory a Components		100 ppm	ion, PI 311/73, as amended
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components sopropanol (CAS 67-63-0) Czech Republic. OELs. Governmer Components 1,2,4-Trimethyl benzene CAS 95-63-6) sopropanol (CAS 67-63-0) n-Hexane (CAS 110-54-3) Rosin based resin (CAS	tmosphere and dangerous su Type TWA Int Decree 361 Type Ceiling TWA Ceiling TWA Ceiling TWA TWA TWA TWA Ceiling TWA	100 ppm ubstances in factories regulativalue 980 mg/m3 400 ppm Value 250 mg/m3 100 mg/m3 1000 mg/m3 500 mg/m3 200 mg/m3 70 mg/m3 1 mg/m3 400 mg/m3 200 mg/m3 Value Value	Form
Components sopropanol (CAS 67-63-0) Czech Republic. OELs. Governmer Components 1,2,4-Trimethyl benzene (CAS 95-63-6) sopropanol (CAS 67-63-0) n-Hexane (CAS 110-54-3) Rosin based resin (CAS 3050-09-7) Kylene (CAS 1330-20-7) Denmark. Exposure Limit Values Components 1,2,4-Trimethyl benzene	tmosphere and dangerous su Type TWA Int Decree 361 Type Ceiling TWA Ceiling TWA Ceiling TWA TWA TWA TWA Ceiling TWA	100 ppm ubstances in factories regulativalue 980 mg/m3 400 ppm Value 250 mg/m3 100 mg/m3 1000 mg/m3 500 mg/m3 200 mg/m3 70 mg/m3 1 mg/m3 400 mg/m3 200 mg/m3 Value 100 mg/m3	Form
Components sopropanol (CAS 67-63-0) Czech Republic. OELs. Governmer Components 1,2,4-Trimethyl benzene CAS 95-63-6) sopropanol (CAS 67-63-0) n-Hexane (CAS 110-54-3) Rosin based resin (CAS 3050-09-7) Kylene (CAS 1330-20-7) Cenmark. Exposure Limit Values Components 1,2,4-Trimethyl benzene CAS 95-63-6)	Type TWA To Decree 361 Type Ceiling TWA Ceiling TWA Ceiling TWA Ceiling TWA TWA TWA TWA TWA TWA TWA TWA TWA TYPE TLV	100 ppm ubstances in factories regulativalue 980 mg/m3 400 ppm Value 250 mg/m3 100 mg/m3 1000 mg/m3 500 mg/m3 200 mg/m3 70 mg/m3 1 mg/m3 400 mg/m3 200 mg/m3	Form
Components sopropanol (CAS 67-63-0) Czech Republic. OELs. Government Components ,2,4-Trimethyl benzene CAS 95-63-6) sopropanol (CAS 67-63-0) n-Hexane (CAS 110-54-3) Rosin based resin (CAS 8050-09-7) Kylene (CAS 1330-20-7) Cenmark. Exposure Limit Values Components ,2,4-Trimethyl benzene CAS 95-63-6) sopropanol (CAS 67-63-0)	Type TWA To Decree 361 Type Ceiling TWA Ceiling TWA Ceiling TWA Ceiling TWA TWA TWA TWA TWA TWA TWA TWA TWA TYPE TLV	100 ppm ubstances in factories regulativalue 980 mg/m3 400 ppm Value 250 mg/m3 1000 mg/m3 1000 mg/m3 200 mg/m3 70 mg/m3 1 mg/m3 400 mg/m3 200 mg/m3	Form
Components sopropanol (CAS 67-63-0) Czech Republic. OELs. Governmer Components 1,2,4-Trimethyl benzene CAS 95-63-6) sopropanol (CAS 67-63-0) n-Hexane (CAS 110-54-3) Rosin based resin (CAS 3050-09-7) Kylene (CAS 1330-20-7) Cenmark. Exposure Limit Values Components 1,2,4-Trimethyl benzene CAS 95-63-6)	Type TWA Type TWA Type Ceiling TWA Ceiling TWA Ceiling TWA Ceiling TWA Ceiling TWA TWA TWA TWA TWA TYPE TLV	100 ppm ubstances in factories regulativalue 980 mg/m3 400 ppm Value 250 mg/m3 1000 mg/m3 1000 mg/m3 200 mg/m3 70 mg/m3 1 mg/m3 400 mg/m3 200 mg/m3 200 mg/m3 200 mg/m3 200 mg/m3 200 ppm 490 mg/m3 200 ppm	Form
Components sopropanol (CAS 67-63-0) Czech Republic. OELs. Government Components 1,2,4-Trimethyl benzene CAS 95-63-6) sopropanol (CAS 67-63-0) n-Hexane (CAS 110-54-3) Rosin based resin (CAS 8050-09-7) Kylene (CAS 1330-20-7) Cenmark. Exposure Limit Values Components 1,2,4-Trimethyl benzene CAS 95-63-6) sopropanol (CAS 67-63-0)	Type TWA Type TWA Type Ceiling TWA Ceiling TWA Ceiling TWA Ceiling TWA Ceiling TWA TWA TWA TWA TWA TYPE TLV	100 ppm ubstances in factories regulativalue 980 mg/m3 400 ppm Value 250 mg/m3 100 mg/m3 1000 mg/m3 500 mg/m3 200 mg/m3 70 mg/m3 1 mg/m3 400 mg/m3 200 ppm 490 mg/m3 200 ppm 72 mg/m3	Form

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Туре	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3
,		20 ppm
Isopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3
Ti-flexalle (CAS 110-54-5)	IWA	-
Vulana (CAC 1000 00 7)	CTEL	20 ppm
Xylene (CAS 1330-20-7)	STEL	450 mg/m3
	T14/4	100 ppm
	TWA	200 mg/m3
		50 ppm
Finland. Workplace Exposure Lim	nits	
Components	Туре	Value
1,2,4-Trimethyl benzene	TWA	100 mg/m3
(CAS 95-63-6)		
,		20 ppm
2,2-dimethylbutane (CAS	STEL	2300 mg/m3
75-83-2)	- · 	
 ,		630 ppm
	TWA	1800 mg/m3
		500 ppm
2,3-Dimethylbutane (CAS	STEL	2300 mg/m3
79-29-8)	STEE	2000 mg/mo
79-29-0)		630 ppm
	TWA	1800 mg/m3
	1 **/	500 ppm
2-Methylpentane (CAS	STEL	2300 mg/m3
107-83-5)	SILL	2300 mg/m3
107 00 0)		630 ppm
	TWA	1800 mg/m3
	IWA	500 ppm
2 Mothylpontano (CAS	STEL	2300 mg/m3
3-Methylpentane (CAS 96-14-0)	SIEL	2300 Hig/III3
30-14-0)		630 ppm
	TWA	1800 mg/m3
	IWA	500 ppm
Incompany (CAC C7 C2 C)	OTEL	···
Isopropanol (CAS 67-63-0)	STEL	620 mg/m3
		250 ppm
	TWA	500 mg/m3
		200 ppm
n-Hexane (CAS 110-54-3)	STEL	2300 mg/m3
		630 ppm
	TWA	72 mg/m3
		20 ppm
Xylene (CAS 1330-20-7)	STEL	440 mg/m3
, , , , , , , , , , , , , , , , , , , ,		100 ppm
	TWA	220 mg/m3
		50 ppm
	# ED. 4	
		ure to Chemicals in France, INRS ED 984 Value Form
Components	Туре	
40471 11 11	VLE	250 mg/m3
		50 ppm
	VME	50 ppm 100 mg/m3
	VME	··
(CAS 95-63-6)		100 mg/m3 20 ppm
(CAS 95-63-6)	VME VLE	100 mg/m3 20 ppm 980 mg/m3
(CAS 95-63-6) Isopropanol (CAS 67-63-0)	VLE	100 mg/m3 20 ppm 980 mg/m3 400 ppm
1,2,4-Trimethyl benzene (CAS 95-63-6) Isopropanol (CAS 67-63-0) n-Hexane (CAS 110-54-3)		100 mg/m3 20 ppm 980 mg/m3

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984 Components Value Type 20 ppm Xylene (CAS 1330-20-7) VLE 442 mg/m3 100 ppm **VME** 221 mg/m3 50 ppm Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) Components Value Type 1,2,4-Trimethyl benzene TWA 100 mg/m3 (CAS 95-63-6) 20 ppm 2,2-dimethylbutane (CAS **TWA** 1800 mg/m3 75-83-2) 500 ppm 2,3-Dimethylbutane (CAS **TWA** 1800 mg/m3 79-29-8) 500 ppm 2-Methylpentane (CAS **TWA** 1800 mg/m3 107-83-5) 500 ppm **TWA** 3-Methylpentane (CAS 1800 mg/m3 96-14-0) 500 ppm Isopropanol (CAS 67-63-0) **TWA** 500 mg/m3 200 ppm **TWA** n-Hexane (CAS 110-54-3) 180 mg/m3 50 ppm Xylene (CAS 1330-20-7) **TWA** 440 ma/m3 100 ppm Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace Components Type Value 1,2,4-Trimethyl benzene **AGW** 100 mg/m3 (CAS 95-63-6) 20 ppm 2,2-dimethylbutane (CAS **AGW** 1800 mg/m3 75-83-2) 500 ppm 2,3-Dimethylbutane (CAS **AGW** 1800 mg/m3 79-29-8) 500 ppm 2-Methylpentane (CAS **AGW** 1800 mg/m3 107-83-5) 500 ppm 3-Methylpentane (CAS **AGW** 1800 mg/m3 96-14-0) 500 ppm Isopropanol (CAS 67-63-0) **AGW** 500 mg/m3 200 ppm **AGW** 180 mg/m3 n-Hexane (CAS 110-54-3) 50 ppm Xylene (CAS 1330-20-7) **AGW** 440 mg/m3 100 ppm Greece. OELs (Decree No. 90/1999, as amended) Components Value Type 1,2,4-Trimethyl benzene TWA 125 mg/m3 (CAS 95-63-6) 25 ppm Isopropanol (CAS 67-63-0) STEL 1225 mg/m3 500 ppm

n-Hexane (CAS 110-54-3)

TWA

TWA

980 mg/m3 400 ppm

72 mg/m3

Greece. OELs (Decree No. 90/1999, a Components	Type	Value	
r)r		
		20 ppm	
Xylene (CAS 1330-20-7)	STEL	650 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
051 - 1-1-1 0		• •	
Hungary. OELs. Joint Decree on Che			
Components	Туре	Value	
1,2,4-Trimethyl benzene	TWA	100 mg/m3	
(CAS 95-63-6)		gg	
sopropanol (CAS 67-63-0)	STEL	2000 mg/m3	
	TWA	500 mg/m3	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
Nyletie (OAS 1330-20-7)	TWA		
	IWA	221 mg/m3	
celand. OELs. Regulation 154/1999	on occupational exposure l		
Components	Туре	Value	
1.2.4 Trimothyl bonzono	TWA	100 mg/m3	
I,2,4-Trimethyl benzene	IWA	100 mg/ms	
(CAS 95-63-6)		20 ppm	
conrenanal (CAS 67 62 0)	T\A/ A	• •	
sopropanol (CAS 67-63-0)	TWA	490 mg/m3	
		200 ppm	
n-Hexane (CAS 110-54-3)	TWA	90 mg/m3	
		25 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	109 mg/m3	
		25 ppm	
		20 pp	
reland. Occupational Exposure Lim			
Components	Туре	Value	
1,2,4-Trimethyl benzene	TWA	100 mg/m3	
(CAS 95-63-6)		gg	
,		20 ppm	
Isopropanol (CAS 67-63-0)	STEL	400 ppm	
(e/ie e/ ee e/	TWA	200 ppm	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
i-Hexalle (CAS 110-54-5)	IVVA	-	
(0.10 (0.10 -	0.77	20 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
taly. Occupational Exposure Limits			
Components	Туре	Value	
Components	туре	value	
1,2,4-Trimethyl benzene	TWA	100 mg/m3	
(CAS 95-63-6)		-	
		20 ppm	
2,2-dimethylbutane (CAS	STEL	1000 ppm	
75-83-2)		• •	
	TWA	500 ppm	
2,3-Dimethylbutane (CAS	STEL	1000 ppm	
79-29-8)		e e e inir	
•	TWA	500 ppm	
2-Methylpentane (CAS	STEL	1000 ppm	
107-83-5)	- 	hh	
· ,	TWA	500 ppm	
3-Methylpentane (CAS	STEL	1000 ppm	
96-14-0)	O'LL	1000 ρριτί	
	TWA	500 ppm	
sopropanol (CAS 67 62 0)	STEL		
sopropanol (CAS 67-63-0)		400 ppm	
	TWA	200 ppm	
(0.40, 440, 54.5)			
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3 20 ppm	

Components	ts Type	Value
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
,		100 ppm
	TWA	221 mg/m3
		50 ppm
Latria OFLa Casumatianal armaa	limit values of about all a	• •
Latvia. OELs. Occupational expos Components	ure limit values of chemical s Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
Isopropanol (CAS 67-63-0)	STEL	600 mg/m3
	TWA	350 mg/m3
n-Hexane (CAS 110-54-3)	STEL	300 mg/m3
,	TWA	72 mg/m3
		20 ppm
Rosin based resin (CAS 8050-09-7)	TWA	4 mg/m3
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
Aylene (GAG 1000 20 1)	0122	100 ppm
	TWA	221 mg/m3
	1 ***	50 ppm
		• •
Lithuania. OELs. Limit Values for Components	Chemical Substances, Gener Type	al Requirements Value
Isopropanol (CAS 67-63-0)	STEL	600 mg/m3
	3.22	250 ppm
	TWA	350 mg/m3
	IVVA	•
(0.40,440,54.0)	T14/4	150 ppm
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
Xylene (CAS 1330-20-7)	STEL	450 mg/m3
		100 ppm
	TWA	200 mg/m3
		50 ppm
Luxembourg. Binding Occupation		
Components	Туре	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3
,		20 ppm
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3
,		20 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
7.5.0 (67.0 1000 10 7.)	3.22	100 ppm
		100 ppiii
	Τ\Λ/ Λ	221 mg/m3
	TWA	221 mg/m3
		50 ppm
Malta. OELs. Occupational Exposi Schedules I and V) Components		50 ppm
Schedules I and V) Components	ure Limit Values (L.N. 227. of 0	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value
Schedules I and V)	ure Limit Values (L.N. 227. of	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value 100 mg/m3
Schedules I and V) Components 1,2,4-Trimethyl benzene (CAS 95-63-6)	ure Limit Values (L.N. 227. of o	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value 100 mg/m3 20 ppm
Schedules I and V) Components 1,2,4-Trimethyl benzene (CAS 95-63-6)	ure Limit Values (L.N. 227. of 0	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value 100 mg/m3 20 ppm 72 mg/m3
Schedules I and V) Components 1,2,4-Trimethyl benzene (CAS 95-63-6) n-Hexane (CAS 110-54-3)	ure Limit Values (L.N. 227. of o	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value 100 mg/m3 20 ppm 72 mg/m3 20 ppm
Schedules I and V) Components 1,2,4-Trimethyl benzene (CAS 95-63-6) n-Hexane (CAS 110-54-3)	ure Limit Values (L.N. 227. of o	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value 100 mg/m3 20 ppm 72 mg/m3 20 ppm 442 mg/m3
Schedules I and V) Components 1,2,4-Trimethyl benzene (CAS 95-63-6) n-Hexane (CAS 110-54-3)	ure Limit Values (L.N. 227. of o	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value 100 mg/m3 20 ppm 72 mg/m3 20 ppm
Schedules I and V) Components 1,2,4-Trimethyl benzene (CAS 95-63-6) n-Hexane (CAS 110-54-3)	ure Limit Values (L.N. 227. of o	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value 100 mg/m3 20 ppm 72 mg/m3 20 ppm 442 mg/m3
Schedules I and V) Components 1,2,4-Trimethyl benzene (CAS 95-63-6) n-Hexane (CAS 110-54-3)	Type TWA TWA STEL	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value 100 mg/m3 20 ppm 72 mg/m3 20 ppm 442 mg/m3 100 ppm
Schedules I and V) Components 1,2,4-Trimethyl benzene (CAS 95-63-6) n-Hexane (CAS 110-54-3) Xylene (CAS 1330-20-7)	Type TWA TWA STEL	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value 100 mg/m3 20 ppm 72 mg/m3 20 ppm 442 mg/m3 100 ppm 221 mg/m3
Schedules I and V) Components 1,2,4-Trimethyl benzene (CAS 95-63-6) n-Hexane (CAS 110-54-3) Xylene (CAS 1330-20-7) Netherlands. OELs (binding)	Type TWA TWA STEL TWA	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value 100 mg/m3 20 ppm 72 mg/m3 20 ppm 442 mg/m3 100 ppm 221 mg/m3 50 ppm
Schedules I and V) Components 1,2,4-Trimethyl benzene (CAS 95-63-6) n-Hexane (CAS 110-54-3) Xylene (CAS 1330-20-7)	Type TWA TWA STEL	50 ppm Occupational Health and Safety Authority Act (CAP. 424) Value 100 mg/m3 20 ppm 72 mg/m3 20 ppm 442 mg/m3 100 ppm 221 mg/m3

Netherlands. OELs (binding)		
Components	Туре	Value
	TWA	100 mg/m3
n-Hexane (CAS 110-54-3)	STEL	144 mg/m3
,	TWA	72 mg/m3
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
	TWA	210 mg/m3
Norway. Administrative Norms for Components	Contaminants in the Workpl Type	ace Value
1,2,4-Trimethyl benzene	TLV	100 mg/m3
(CAS 95-63-6)	ILV	•
Isopropanol (CAS 67-63-0)	TLV	20 ppm 245 mg/m3
,		100 ppm
n-Hexane (CAS 110-54-3)	TLV	72 mg/m3
		20 ppm
Xylene (CAS 1330-20-7)	TLV	108 mg/m3
		25 ppm
Poland. MACs. Regulation regardi environment, Annex 1	ng maximum permissible co	ncentrations and intensities of harmful factors in the worl
Components	Туре	Value
1,2,4-Trimethyl benzene	STEL	170 mg/m3
(CAS 95-63-6)		•
	TWA	100 mg/m3
Isopropanol (CAS 67-63-0)	STEL	1200 mg/m3
	TWA	900 mg/m3
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3
Xylene (CAS 1330-20-7)	TWA	100 mg/m3
		•
Portugal. OELs. Decree-Law n. 290 Components	Type	Value
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3
		20 ppm
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3
		20 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
,		100 ppm
	TWA	221 mg/m3
		50 ppm
Portugal. VLEs. Norm on occupati	onal exposure to chemical a	·
Components	Туре	Value
Isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
n-Hexane (CAS 110-54-3)	TWA	50 ppm
Xylene (CAS 1330-20-7)	STEL	150 ppm
Aylette (CAS 1330-20-7)	TWA	100 ppm
Romania. OELs. Protection of wor Components	kers from exposure to chem Type	ical agents at the workplace Value
1,2,4-Trimethyl benzene	TWA	100 mg/m3
(CAS 95-63-6)	1 **/ \	100 mg/me
		20 ppm
Isopropanol (CAS 67-63-0)	STEL	500 mg/m3
		203 ppm
	TWA	200 mg/m3
		81 ppm
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3
11 110/allo (0/10 110-04-0)	1447	20 ppm
Rosin based resin (CAS	TWA	···
8050-09-7)	IVVA	0,1 mg/m3
8030-09-7) Xylene (CAS 1330-20-7)	STEL	442 mg/m3
Aylono (OAO 1000-20-1)	OILL	
	TWA	100 ppm 221 mg/m3

50 ppm

Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3	
		400 ppm	
	TWA	500 mg/m3	
		200 ppm	
n-Hexane (CAS 110-54-3)	STEL	140 mg/m3	
		40 ppm	
	TWA	72 mg/m3	
		20 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

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

Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
,		20 ppm	
2,2-dimethylbutane (CAS 75-83-2)	TWA	720 mg/m3	
73-63-2)		200 ppm	
2,3-Dimethylbutane (CAS	TWA	720 mg/m3	
[^] / ₉ -29-8)		ŭ	
		200 ppm	
2-Methylpentane (CAS 107-83-5)	TWA	720 mg/m3	
		200 ppm	
3-Methylpentane (CAS 96-14-0)	TWA	720 mg/m3	
•		200 ppm	
Isopropanol (CAS 67-63-0)	TWA	500 mg/m3	
		200 ppm	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
		20 ppm	
Xylene (CAS 1330-20-7)	TWA	221 mg/m3	
		50 ppm	
Spain. Occupational Exposure Lir			
Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3	
		400 ppm	
	TWA	500 mg/m3	
(0.40,440,54.0)	T)4/4	200 ppm	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
Video (CAC 1000 00 7)	CTEL	20 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
	TWA	100 ppm 221 mg/m3	
	IVVA	50 ppm	
		ου ρριτι	
Sweden. Occupational Exposure		Walne	
Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	STEL	170 mg/m3	

Sweden. Occupational Exposure		Value	
Components	Туре	Value	
		35 ppm	
	TWA	120 mg/m3	
		25 ppm	
2,2-dimethylbutane (CAS	STEL	1100 mg/m3	
75-83-2)			
		300 ppm	
	TWA	700 mg/m3	
		200 ppm	
2,3-Dimethylbutane (CAS	STEL	1100 mg/m3	
79-29-8)			
		300 ppm	
	TWA	700 mg/m3	
		200 ppm	
2-Methylpentane (CAS	STEL	1100 mg/m3	
107-83-5)		000	
	T)A/A	300 ppm	
	TWA	700 mg/m3	
0.14	OTEL	200 ppm	
3-Methylpentane (CAS	STEL	1100 mg/m3	
96-14-0)		300 ppm	
	TWA	700 mg/m3	
	IVVA	-	
January 1 (CAC 67 60 0)	CTEL	200 ppm	
Isopropanol (CAS 67-63-0)	STEL	600 mg/m3	
	T)A/A	250 ppm	
	TWA	350 mg/m3	
(0.10		150 ppm	
n-Hexane (CAS 110-54-3)	STEL	180 mg/m3	
		50 ppm	
	TWA	90 mg/m3	
		25 ppm	
Xylene (CAS 1330-20-7)	Ceiling	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
Switzerland. SUVA Grenzwerte an	n Arbeitsplatz		
Components	Туре	Value	
2,2-dimethylbutane (CAS	STEL	3600 mg/m3	
75-83-2)	SILL	3000 mg/m3	
70 00 2)		1000 ppm	
	TWA	1800 mg/m3	
		500 ppm	
2,3-Dimethylbutane (CAS	STEL	3600 mg/m3	
79-29-8)	0122	0000 mg/mo	
		1000 ppm	
	TWA	1800 mg/m3	
		500 ppm	
2-Methylpentane (CAS	STEL	3600 mg/m3	
107-83-5)	0122	ooo mg/mo	
,		1000 ppm	
	TWA	1800 mg/m3	
		500 ppm	
3-Methylpentane (CAS	STEL	3600 mg/m3	
96-14-0)	J	ooo mg/mo	
,		1000 ppm	
	TWA	1800 mg/m3	
		500 ppm	
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3	
	- · 		
	TWA		
		-00 pp	
n-Hexane (CAS 110-54-3)	STEL	1440 mg/m3	
	TWA	400 ppm 500 mg/m3 200 ppm	

Switzerland. SUVA Grenzwerte ar Components	n Arbeitsplatz Type	Value	
	TWA	180 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	STEL	870 mg/m3	
,		200 ppm	
	TWA	435 mg/m3	
		100 ppm	
UK. EH40 Workplace Exposure Li	mits (WELs)		
Components	Туре	Value	Form
Isopropanol (CAS 67-63-0)	STEL	1250 mg/m3	
		500 ppm	
	TWA	999 mg/m3	
		400 ppm	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
		20 ppm	
Rosin based resin (CAS 8050-09-7)	STEL	0,15 mg/m3	Fume.
	TWA	0,05 mg/m3	Fume.
Xylene (CAS 1330-20-7)	STEL	441 mg/m3	
		100 ppm	
	TWA	220 mg/m3	
		50 ppm	
EU. Indicative Exposure Limit Val	ues in Directives 91/322/EEC	, 2000/39/EC, 2006/15/EC, 2009	/161/EU
Components	Туре	Value	
1,2,4-Trimethyl benzene (CAS 95-63-6)	TWA	100 mg/m3	
		20 ppm	
n-Hexane (CAS 110-54-3)	TWA	72 mg/m3	
		20 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	

Biological limit values

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

Components	Value	Determinant	Specimen	Sampling time	
Isopropanol (CAS 67-63-0)	50 mg/l	Acetone	Blood	*	
	50 mg/l	Acetone	Urine	*	
n-Hexane (CAS 110-54-3)	150 μg/l	n-Hexane	Blood	*	
	5,3 mg/g	2,5-Hexanedio ne	Creatinine in urine	*	
	5,25 mmol/mol	2,5-Hexanedio ne	Creatinine in urine	*	
	40 ppm	n-Hexane	End-exhaled air	*	
	1,74 umol/l	n-Hexane	Blood	*	
	1,66 umol/l	n-Hexane	End-exhaled air	*	
Xylene (CAS 1330-20-7)	1,5 g/g	Methylhippuric acids	Creatinine in blood	*	
	1,5 mg/l	Xylene	Blood	*	
	0,88 mol/mol	Methylhippuric acids	Creatinine in blood	*	
	14,13 umol/l	Xylene	Blood	*	

50 ppm

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

Components	Value	Determinant	Specimen	Sampling time
Xylene (CAS 1330-20-7)	820 μmol/mmol	Methylhippuric acids	Creatinine in urine	*

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

Components	Value	Determinant	Specimen	Sampling time
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*

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

Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV), Social Affairs and Ministry of Health Components Value Determinant Specimen Sampling time

Xylene (CAS 1330-20-7) 5 mmol/l Methylhippuric Urine acids

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065) Components Value **Determinant** Specimen Sampling time n-Hexane (CAS 110-54-3) 2,5-Hexanedio Creatinine in 5 mg/g urine ne Xylene (CAS 1330-20-7) Creatinine in 1500 mg/g Acides méthylhippuriq urine

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

Components	Value	Determinant	Specimen	Sampling time
1,2,4-Trimethyl benzene (CAS 95-63-6)	400 mg/g	Dimethylbenzo esäuren (Summe aller Isomeren nach Hydrolyse)	Creatinine in urine	*
Isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Blood	*
	25 mg/l	Aceton	Urine	*
n-Hexane (CAS 110-54-3)	5 mg/l	2,5-Hexandion plus 4,5-Dihydroxy- 2-hexanon (nach Hydrolyse)	Urine	*
Xylene (CAS 1330-20-7)	2000 mg/l	Methylhippur-(T olur-) säure (alle Isomere)	Urine	*
	1,5 mg/l	Xylol	Blood	*

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

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

Components	Value	Determinant	Specimen	Sampling time
n-Hexane (CAS 110-54-3)	3,5 mg/g	hexane-2,5-dio n	Creatinine in urine	*
	3,5 µmol/mmol	hexane-2,5-dio n	Creatinine in urine	*
ylene (CAS 1330-20-7)	1500 mg/g	methyl hippuric acids	Creatinine in urine	*
	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*

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

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

Components	Value	Determinant	Specimen	Sampling time	
n-Hexane (CAS 110-54-3)	3 mg/g	2,5-hexanedion e and 4,5-dihydroxy-2 -hexanone	Creatinine in urine	*	
	5 mg/l	2,5-hexanedion e and 4,5-dihydroxy-2 -hexanone	Urine	*	
Xylene (CAS 1330-20-7)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*	

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

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

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

Components	Value	Determinant	Specimen	Sampling time	
	2000 mg/l	Methylhippuric acids	Urine	*	
	1,5 mg/l	Xylene	Blood	*	

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

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4						
Components	Value	Determinant	Specimen	Sampling time		
Isopropanol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*		
n-Hexane (CAS 110-54-3)	0,2 mg/l	2,5-Hexanodio na, sin hidrólisis	Urine	*		
Xylene (CAS 1330-20-7)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*		

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

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

Components	Value	Determinant	Specimen	Sampling time	
Isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Blood	*	
	25 mg/l	Aceton	Urine	*	
n-Hexane (CAS 110-54-3)	5 mg/l	2,5-Hexandion plus 4,5-Dihydroxy- 2-hexanon	Urine	*	
Xylene (CAS 1330-20-7)	1,5 g/g	Methyl-Hippurs äure	Creatinine in urine	*	
	1,5 mg/l	Xylol	Blood	*	

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

UK. EH40 Biological Monitoring Guidance Values (BMGVs)					
Components	Value	Determinant	Specimen	Sampling time	
Xylene (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*	

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

Recommended monitoring

Follow standard monitoring procedures.

procedures

Derived no effect levels

(DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

EU Exposure Limit Values: Skin designation

Xylene (CAS 1330-20-7)

Can be absorbed through the skin.

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

Xylene (CAS 1330-20-7)

Can be absorbed through the skin.

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Use personal protective equipment as required. Personal protection equipment should be chosen **General information**

according to the CEN standards and in discussion with the supplier of the personal protective

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Thermal hazards

- Hand protection Wear appropriate chemical resistant gloves.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. - Other

Wear appropriate thermal protective clothing, when necessary.

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

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Hygiene measures Observe any medical surveillance requirements. 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. Contaminated work clothing should not be allowed out of the workplace.

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 Dark grey. Black.

Odour Characteristic.

Odour threshold Not established

pH Not applicable

Melting point/freezing point Not established

Initial boiling point and boiling 61 °C (141,8 °F)

range

Flash point < -17,0 °C (< 1,4 °F) Tag closed cup (dispensed liquid)

Evaporation rate < 1 (Ethyl Ether = 1)
Flammability (solid, gas) Flammable gas.

Upper/lower flammability or explosive limits

Flammability limit - lower

0,6 %

Clampachility limit

Flammability limit - upper

7 %

(%)

Vapour pressure 352,53 mm Hg @ 38°C

Vapour density ~3

Relative density 0,74 - 0,76 @ 20°C

Solubility(ies)

Solubility (water) < 25 % by weight Solubility (other) Not available.

Partition coefficient > 1

(n-octanol/water)

Auto-ignition temperature 306 °C (582,8 °F)

Decomposition temperature Not established

Viscosity< 14 cSt</th>Viscosity temperature25 °C (77 °F)Explosive propertiesNot explosive.Oxidising propertiesNot oxidising.

9.2. Other information

Heat of combustion > 30 kJ/g

VOC 95 % per US State and Federal Consumer Product Regulations (excluding compounds exempted

by US EPA)

SECTION 10: Stability and reactivity

10.1. ReactivityThe 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 avoidAvoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials Acids. Strong oxidising agents. Isocyanates. Chlorine.

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 damage to organs through prolonged or repeated exposure by inhalation. May cause

drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

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. Narcosis. Headache. Nausea, vomiting. Behavioural

changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May

cause an allergic skin reaction. Dermatitis. Rash.

11.1. Information on toxicological effects

Acute toxicity

Not expected to be acutely toxic.

Components

Species

Test results

Components	Species	Test results
1,2,4-Trimethyl benzene (CAS 95-6	53-6)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 3160 mg/kg
Inhalation		
LC50	Rat	10200 mg/m3, 4 Hours
Oral		
LD50	Rat	3280 mg/kg
Aromatic Solvent (CAS 64742-95-6	5)	
<u>Acute</u>		
Dermal	- · · · ·	
LD50	Rabbit	> 1900 mg/kg, 24 Hours
Inhalation		
Vapour	Det	4000 77 0/720 4 110 177
LC50	Rat	> 4980 mg/m3, 4 Hours
Oral LD50	Rat	4820 mg/kg
	nai	4820 Hg/kg
Isopropanol (CAS 67-63-0)		
<u>Acute</u> Dermal		
LD50	Rabbit	16,4 ml/kg, 24 Hours
Oral	Habbit	10,1 m/ng, 21110di0
LD50	Rat	4,7 g/kg
n-Hexane (CAS 110-54-3)	···a·	·,, g, · · g
Acute		
Dermal		
LD50	Rabbit	> 5 ml/kg, 4 Hours
Inhalation		•
Vapour		
LC50	Rat	73860 ppm, 4 Hours
Oral		
LD50	Rat	49 ml/kg
Rosin based resin (CAS 8050-09-7)	
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours
Oral		
LD50	Rat	> 1000 mg/kg

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Components **Species Test results**

Xylene (CAS 1330-20-7)

Acute

Dermal

> 5000 ml/kg, 4 Hours LD50 Rabbit

Inhalation

Vapour

LC50 Rat 6700 ppm, 4 Hours

Oral

LD50 Rat 10 ml/kg

Skin corrosion/irritation

Serious eye damage/eye irritation

Causes serious eve irritation.

Causes skin irritation.

Respiratory sensitisation Not a respiratory sensitizer.

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

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

ACGIH Carcinogens

Isopropanol (CAS 67-63-0) Not classifiable as a human carcinogen. A4 Xylene (CAS 1330-20-7) 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)

Aromatic Solvent (CAS 64742-95-6)

Petroleum Gases, Liquefied, Sweetened (CAS 68476-86-8) IARC Monographs. Overall Evaluation of Carcinogenicity

Xylene (CAS 1330-20-7) 3 Not classifiable as to carcinogenicity to humans.

Suspected of damaging fertility or the unborn child. Reproductive toxicity

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

n-Hexane (CAS 110-54-3) Toxic for reproduction - category 2.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (nervous system) through prolonged or repeated exposure by

inhalation.

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

Mixture versus substance

information

No information available.

Other information Symptoms may be delayed.

SECTION 12: Ecological information

Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are 12.1. Toxicity

not met for hazardous to the aquatic environment, acute hazard.

Test results Components Species

1,2,4-Trimethyl benzene (CAS 95-63-6)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 7,19 - 8,28 mg/l, 96 hours

Isopropanol (CAS 67-63-0)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours

n-Hexane (CAS 110-54-3)

Aquatic

LC50 Fish Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours

Xylene (CAS 1330-20-7)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 7,711 - 9,591 mg/l, 96 hours

12.2. Persistence and

degradability

Not inherently biodegradable.

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12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

LPS® Force 842 > 1 2.2-Dimethylbutane 3.82 2,3-Dimethylbutane 3,42 2-Methylpentane 3.74 3-Methylpentane 3.6 Isopropanol 0.05 n-Hexane 3.9 3,12 - 3,2**Xylene**

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

and vPvB assessment

None known. 12.6. Other adverse effects

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).

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

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

disposal company.

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

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.

Dispose in accordance with all applicable regulations. Special precautions

SECTION 14: Transport information

ADR

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

14.3. Transport hazard class(es)

Class 2.1 Subsidiary risk 2.1 Label(s)

Not available. Hazard No. (ADR)

Tunnel restriction code 2 (D)

Not applicable. 14.4. Packing group

14.5. Environmental hazards No.

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

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 2.1 Label(s)

14.4. Packing group Not applicable.

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 applicable.

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 -Label(s) 2.1

14.4. Packing group Not applicable.

14.5. Environmental hazards No.

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 -Label(s) 2.1

14.4. Packing group Not applicable.

14.5. Environmental hazards

Marine pollutant No

EmS Not available.

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

for user

14.7. Transport in bulk Not applicable.

according to Annex II of Marpol

and the IBC Code

ADN; ADR; IATA; IMDG; RID



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

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

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

n-Hexane (CAS 110-54-3)

Petroleum Gases, Liquefied, Sweetened (CAS 68476-86-8)

Aromatic Solvent (CAS 64742-95-6)

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

Aromatic Solvent (CAS 64742-95-6)

Petroleum Gases, Liquefied, Sweetened (CAS 68476-86-8)

Other EU regulations

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

1,2,4-Trimethyl benzene (CAS 95-63-6)

2,2-Dimethylbutane (CAS 75-83-2)

2,3-Dimethylbutane (CAS 79-29-8)

2-Methylpentane (CAS 107-83-5)

3-Methylpentane (CAS 96-14-0)

Isopropanol (CAS 67-63-0)

n-Hexane (CAS 110-54-3)

Petroleum Gases, Liquefied, Sweetened (CAS 68476-86-8)

Xylene (CAS 1330-20-7)

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Other regulations

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

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

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

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

R10 Flammable. R11 Highly flammable. R12 Extremely flammable. R20 Harmful by inhalation.

R20/21 Harmful by inhalation and in contact with skin.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R45 May cause cancer.

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R46 May cause heritable genetic damage.

R47 May cause birth defects.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

R62 Possible risk of impaired fertility.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H340 May cause genetic defects.

H350 May cause cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

This document has undergone significant changes and should be reviewed in its entirety.

Follow training instructions when handling this material.

Revision information Training information Disclaimer

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