SAFETY DATA SHEET

Version #: 07
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture	DEVCON® Flexane® Primer FL-10
Registration number	-
Synonyms	None.
SKU#	15980

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

Identified uses	Not available.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Company Name	ITW Performance Polymers
Address	Bay 150 Shannon Industrial Estate Co. Clare Ireland V14 DF82
Contact Person	Customer Service
Telephone Number	353(61)771500 353(61)471285
Email	customerservice.shannon@itwpp.com
Emergency Phone Number	44(0) 1235 239 670 (24 hours)

1.4. Emergency telephone number

General in EU	112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Austria National Poisons Information Center	+431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Belgium National Poisons Control Center	070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Bulgaria National Toxicological Information Center	+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Croatia Poisons Information Center	+385 1 2348 342 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Cyprus Poison Center	1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Czech Republic National Poisons Information Center	+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Denmark National Poisons Control Center	+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Estonia National Poisons Information Center	16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)
Finland National Poison Information Center	(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
France National Poisons Control Center	ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

1.4. Emergency telephone number

Greece Poison Information Centre	(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Hungary National Emergency Phone Number	+36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Iceland Poison Center	(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Latvia Emergency medical aid	113
Latvia Poison and Drug Information Center	+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Lithuania Neatidėliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Netherlands National Poisons Information Center (NVIC)	NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Center	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Portugal Poison Center	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
Slovakia National Toxicological Information Center	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Spain Toxicology Information Service	+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Sweden National Poison Information Center	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Switzerland Tox Info Suisse	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Physical hazards		
Flammable liquids	Category 2	H225 - Highly flammable liquid and vapor.
Health hazards		
Acute toxicity, inhalation	Category 4	H332 - Harmful if inhaled.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Carcinogenicity	Category 2	H351 - Suspected of causing cancer.
Reproductive toxicity	Category 2	H361 - Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure	Category 2	H373 - May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Category 1	H304 - May be fatal if swallowed and enters airways.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

UFI:

Austria: FN70-W07U-T00T-P4YE
Belgium: FN70-W07U-T00T-P4YE
Bulgaria: FN70-W07U-T00T-P4YE
Croatia: FN70-W07U-T00T-P4YE
Cyprus: FN70-W07U-T00T-P4YE
Czech Republic: FN70-W07U-T00T-P4YE
Denmark: FN70-W07U-T00T-P4YE
Estonia: FN70-W07U-T00T-P4YE
EU: FN70-W07U-T00T-P4YE
Finland: FN70-W07U-T00T-P4YE
France: FN70-W07U-T00T-P4YE
Germany: FN70-W07U-T00T-P4YE
Greece: FN70-W07U-T00T-P4YE
Hungary: FN70-W07U-T00T-P4YE
Iceland: FN70-W07U-T00T-P4YE
Ireland: FN70-W07U-T00T-P4YE
Italy: FN70-W07U-T00T-P4YE
Latvia: FN70-W07U-T00T-P4YE
Lithuania: FN70-W07U-T00T-P4YE
Luxembourg: FN70-W07U-T00T-P4YE
Malta: FN70-W07U-T00T-P4YE
Netherlands: FN70-W07U-T00T-P4YE
Norway: FN70-W07U-T00T-P4YE
Poland: FN70-W07U-T00T-P4YE
Portugal: FN70-W07U-T00T-P4YE
Romania: FN70-W07U-T00T-P4YE
Slovakia: FN70-W07U-T00T-P4YE
Slovenia: FN70-W07U-T00T-P4YE
Spain: FN70-W07U-T00T-P4YE
Sweden: FN70-W07U-T00T-P4YE

Contains: 4-methylpentan-2-one; isobutyl methyl ketone, methanol, propan-2-ol; isopropyl alcohol; isopropanol, toluene

Hazard pictograms

Signal word Danger

Hazard statements

H225	Highly flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
P233	Keep container tightly closed.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe mist/vapors.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.
P391	Collect spillage.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Disposal

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

Supplemental label information None.

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
4-methylpentan-2-one; isobutyl methyl ketone	15 - 40	108-10-1 203-550-1	-	606-004-00-4	#
Classification:	Flam. Liq. 2;H225, Acute Tox. 4;H332;(ATE: 11 mg/l), Eye Irrit. 2;H319, Carc. 2;H351, STOT SE 3;H335;H336				
Supplemental Hazard Statement(s):	EUH066				
propan-2-ol; isopropyl alcohol; isopropanol	15 - 40	67-63-0 200-661-7	-	603-117-00-0	
Classification:	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336				
toluene	15 - 40	108-88-3 203-625-9	-	601-021-00-3	#
Classification:	Flam. Liq. 2;H225, Skin Irrit. 2;H315, Repr. 2;H361d, STOT SE 3;H336, STOT RE 2;H373, Asp. Tox. 1;H304, Aquatic Chronic 2;H411				
ethanol; ethyl alcohol	1 - 5	64-17-5 200-578-6	-	603-002-00-5	
Classification:	Flam. Liq. 2;H225, Carc. 1A;H350, Aquatic Chronic 2;H411				
methanol	< 1	67-56-1 200-659-6	-	603-001-00-X	#
Classification:	Flam. Liq. 2;H225, Acute Tox. 3;H301;(ATE: 100 mg/kg bw), Acute Tox. 3;H311;(ATE: 300 mg/kg bw), Acute Tox. 3;H331;(ATE: 3 mg/l), STOT SE 1;H370				
Specific Concentration Limits:	STOT SE 1;H370: C ≥ 10 %, STOT SE 2;H371: 3 % ≤ C < 10 %				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
phenol; carbolic acid; monohydroxybenzene; phenylalcohol	< 1	108-95-2 203-632-7	-	604-001-00-2	#

Classification: Acute Tox. 3;H301;(ATE: 100 mg/kg bw), Acute Tox. 3;H311;(ATE: 300 mg/kg bw), Acute Tox. 3;H331;(ATE: 0,5 mg/l), Skin Corr. 1B;H314, Eye Dam. 1;H318, Muta. 2;H341, STOT RE 2;H373, Aquatic Chronic 2;H411

Specific Concentration Limits: Skin Corr. 1B;H314: C ≥ 3 %, Skin Irrit. 2;H315: 1 % ≤ C < 3 %, Eye Dam. 1;H314: C ≥ 3 %, Eye Irrit. 2;H319: 1 % ≤ C < 3 %

Other components below reportable levels	< 0,1

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.
M: M-factor
vPvB: very persistent and very bioaccumulative substance.
PBT: persistent, bioaccumulative and toxic substance.
#: This substance has been assigned Union workplace exposure limit(s).
All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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

SECTION 4: First aid measures

General information Take off all contaminated clothing immediately. 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. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. 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 Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. 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. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Highly flammable liquid and vapor.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

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

5.2. Special hazards arising from the substance or mixture Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

For emergency responders

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate closed spaces before entering them. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. 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

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

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. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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. Put material in suitable, covered, labeled containers.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

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. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. 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 breathe mist/vapors. 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 outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

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

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

ANNEX 1, PART 1 Categories of dangerous substances
Hazard categories in accordance with Regulation (EC) No 1272/2008
- P5a, b or c FLAMMABLE LIQUIDS (Lower-tier requirements = 50 tons; Upper-tier requirements = 200 tons)
- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tons; Upper-tier requirements = 500 tons)

7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	MAK	83 mg/m3
		20 ppm
	STEL	208 mg/m3
		50 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	Ceiling	3800 mg/m3
		2000 ppm
	MAK	1900 mg/m3
		1000 ppm

Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended

Components	Type	Value
methanol (CAS 67-56-1)	MAK	260 mg/m3
		200 ppm
	STEL	1040 mg/m3
		800 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	MAK	8 mg/m3
		2 ppm
	STEL	6 mg/m3
		4 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	MAK	500 mg/m3
		200 ppm
	STEL	2000 mg/m3
		800 ppm
toluene (CAS 108-88-3)	MAK	190 mg/m3
		50 ppm
	STEL	380 mg/m3
		100 ppm

Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1907 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	STEL	333 mg/m3
		250 ppm
	TWA	266 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3
		200 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	77 mg/m3

Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Type	Value
		20 ppm

Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	200 mg/m3
	TWA	50 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1000 mg/m3
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
	TWA	980 mg/m3
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	MAC	83 mg/m3
		20 ppm
	STEL	208 mg/m3
		50 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	MAC	1900 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	MAC	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	MAC	8 mg/m3
		2 ppm
	STEL	6 mg/m3
		4 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	MAC	999 mg/m3
		400 ppm
	STEL	1250 mg/m3
		500 ppm

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Type	Value
toluene (CAS 108-88-3)	MAC	192 mg/m3
		50 ppm
	STEL	384 mg/m3
		100 ppm

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

Components	Type	Value
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	TWA	980 mg/m3
		400 ppm

Cyprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Safety and Health at Work (Chem. Agents) Reg., Ann. 1, R.A.A. 268/2001, as amended)

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Ceiling	200 mg/m3
	TWA	80 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	Ceiling	3000 mg/m3
	TWA	1000 mg/m3
methanol (CAS 67-56-1)	Ceiling	1000 mg/m3
	TWA	250 mg/m3
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Ceiling	15 mg/m3
	TWA	7,5 mg/m3
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	Ceiling	1000 mg/m3
	TWA	500 mg/m3
toluene (CAS 108-88-3)	Ceiling	384 mg/m3

Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

Components	Type	Value
	TWA	192 mg/m3

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	TLV	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TLV	1900 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	TLV	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	TLV	4 mg/m3
		1 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	TLV	490 mg/m3
		200 ppm
toluene (CAS 108-88-3)	TLV	94 mg/m3
		25 ppm

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

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
		500 ppm
methanol (CAS 67-56-1)	STEL	350 mg/m3
		250 ppm
	TWA	250 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3

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

Components	Type	Value
		100 ppm
	TWA	192 mg/m3
		50 ppm

Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	210 mg/m3
		50 ppm
	TWA	80 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	2500 mg/m3
		1300 ppm
	TWA	1900 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	STEL	330 mg/m3
		250 ppm
	TWA	270 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	620 mg/m3
		250 ppm
	TWA	500 mg/m3
		200 ppm
toluene (CAS 108-88-3)	STEL	380 mg/m3
		100 ppm
	TWA	81 mg/m3
		25 ppm

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

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	VLE	208 mg/m3
		50 ppm
	VME	83 mg/m3
		20 ppm
methanol (CAS 67-56-1)	VME	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	VLE	15,6 mg/m3
		4 ppm
	VME	7,8 mg/m3

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

Components	Type	Value
		2 ppm
toluene (CAS 108-88-3)	VLE	384 mg/m3
		100 ppm
	VME	76,8 mg/m3
		20 ppm

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

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	VLE	208 mg/m3
Regulatory status: Regulatory binding (VRC)		
		50 ppm
Regulatory status: Regulatory binding (VRC)		
	VME	83 mg/m3
Regulatory status: Regulatory binding (VRC)		
		20 ppm
Regulatory status: Regulatory binding (VRC)		
ethanol; ethyl alcohol (CAS 64-17-5)	VLE	9500 mg/m3
Regulatory status: Indicative limit (VL)		
		5000 ppm
Regulatory status: Indicative limit (VL)		
	VME	1900 mg/m3
Regulatory status: Indicative limit (VL)		
		1000 ppm
Regulatory status: Indicative limit (VL)		
methanol (CAS 67-56-1)	VLE	1300 mg/m3
Regulatory status: Indicative limit (VL)		
		1000 ppm
Regulatory status: Indicative limit (VL)		
	VME	260 mg/m3
Regulatory status: Regulatory binding (VRC)		
		200 ppm
Regulatory status: Regulatory binding (VRC)		
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	VLE	15,6 mg/m3
Regulatory status: Regulatory binding (VRC)		
		4 ppm
Regulatory status: Regulatory binding (VRC)		
	VME	7,8 mg/m3
Regulatory status: Regulatory binding (VRC)		
		2 ppm
Regulatory status: Regulatory binding (VRC)		
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	VLE	980 mg/m3
Regulatory status: Indicative limit (VL)		
		400 ppm
Regulatory status: Indicative limit (VL)		
toluene (CAS 108-88-3)	VLE	384 mg/m3
Regulatory status: Regulatory binding (VRC)		

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

Components	Type	Value
		100 ppm
Regulatory status:	Regulatory binding (VRC)	
	VME	76,8 mg/m3
Regulatory status:	Regulatory binding (VRC)	
		20 ppm
Regulatory status:	Regulatory binding (VRC)	

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

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	380 mg/m3
		200 ppm
methanol (CAS 67-56-1)	TWA	130 mg/m3
		100 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	TWA	500 mg/m3
		200 ppm
toluene (CAS 108-88-3)	TWA	190 mg/m3
		50 ppm

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

Components	Type	Value	Form
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	AGW	83 mg/m3	
		20 ppm	
ethanol; ethyl alcohol (CAS 64-17-5)	AGW	380 mg/m3	
		200 ppm	
methanol (CAS 67-56-1)	AGW	130 mg/m3	
		100 ppm	
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	AGW	8 mg/m3	Vapor and aerosol.
		2 ppm	Vapor and aerosol.
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	AGW	500 mg/m3	
		200 ppm	
toluene (CAS 108-88-3)	AGW	190 mg/m3	
		50 ppm	

Greece. OELs, Presidential Decree No. 307/1986, as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	410 mg/m3
		100 ppm
	TWA	410 mg/m3
		100 ppm

Greece. OELs, Presidential Decree No. 307/1986, as amended

Components	Type	Value
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	STEL	325 mg/m3
		250 ppm
	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
		500 ppm
	TWA	980 mg/m3
		400 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	83 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	3800 mg/m3
	TWA	1900 mg/m3
methanol (CAS 67-56-1)	TWA	260 mg/m3
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
	TWA	8 mg/m3
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
	TWA	500 mg/m3
toluene (CAS 108-88-3)	STEL	380 mg/m3
	TWA	190 mg/m3

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Components	Type	Value
		1000 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	TWA	490 mg/m3
		200 ppm
toluene (CAS 108-88-3)	STEL	88 mg/m3
		50 ppm
	TWA	94 mg/m3
		25 ppm

Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1000 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm

Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended

Components	Type	Value
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
toluene (CAS 108-88-3)	TWA	192 mg/m3
		50 ppm

Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1000 mg/m3
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	600 mg/m3
	TWA	350 mg/m3
toluene (CAS 108-88-3)	STEL	150 mg/m3
		40 ppm
	TWA	50 mg/m3
		14 ppm

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
		500 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Type	Value
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Type	Value
		4 ppm
	TWA	8 mg/m3
		2 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	104 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3
	TWA	260 mg/m3
methanol (CAS 67-56-1)	TWA	133 mg/m3
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	TWA	8 mg/m3
toluene (CAS 108-88-3)	STEL	384 mg/m3
	TWA	150 mg/m3

Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TLV	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TLV	950 mg/m3
		500 ppm
methanol (CAS 67-56-1)	TLV	130 mg/m3
		100 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	12 mg/m3
		3 ppm
	TLV	4 mg/m3
		1 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	TLV	245 mg/m3
		100 ppm
toluene (CAS 108-88-3)	TLV	94 mg/m3
		25 ppm

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	200 mg/m3
	TWA	83 mg/m3
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1900 mg/m3
methanol (CAS 67-56-1)	STEL	300 mg/m3
	TWA	100 mg/m3
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
	TWA	7,8 mg/m3
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	1200 mg/m3
	TWA	900 mg/m3
toluene (CAS 108-88-3)	STEL	200 mg/m3
	TWA	100 mg/m3

Portugal. Decree-Law No. 24/2012, Occupational Exposure Limit Values, Annex II, as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	75 ppm
	TWA	20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1000 ppm
methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	TWA	5 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)

Components	Type	Value
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
toluene (CAS 108-88-3)	TWA	20 ppm

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	9500 mg/m3
		5000 ppm
	TWA	1900 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	500 mg/m3
		203 ppm
	TWA	200 mg/m3
		81 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	166 mg/m3
		40 ppm
	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1920 mg/m3
		1000 ppm
	TWA	960 mg/m3
		500 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm

Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)

Components	Type	Value
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3
		200 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	960 mg/m3
		500 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	TWA	500 mg/m3
		200 ppm
toluene (CAS 108-88-3)	TWA	192 mg/m3
		50 ppm

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1910 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	TWA	266 mg/m3
		200 ppm

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Type	Value
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm
	TWA	500 mg/m3
		200 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Ceiling	200 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
		500 ppm
methanol (CAS 67-56-1)	STEL	350 mg/m3
		250 ppm
	TWA	250 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Ceiling	16 mg/m3
		4 ppm
	TWA	4 mg/m3
		1 ppm
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
toluene (CAS 108-88-3)	Ceiling	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Type	Value	Form
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	164 mg/m3	
		40 ppm	
	TWA	82 mg/m3	
		20 ppm	
ethanol; ethyl alcohol (CAS 64-17-5)	STEL	1920 mg/m3	
		1000 ppm	
	TWA	960 mg/m3	
		500 ppm	
methanol (CAS 67-56-1)	STEL	520 mg/m3	
		400 ppm	
	TWA	260 mg/m3	
		200 ppm	
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	19 mg/m3	Vapor and aerosol.
		5 ppm	Vapor and aerosol.
	TWA	19 mg/m3	Vapor and aerosol.
		5 ppm	Vapor and aerosol.
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	1000 mg/m3	
		400 ppm	
	TWA	500 mg/m3	
		200 ppm	
toluene (CAS 108-88-3)	STEL	760 mg/m3	
		200 ppm	
	TWA	190 mg/m3	
		50 ppm	

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	416 mg/m3
		100 ppm
	TWA	208 mg/m3
		50 ppm
ethanol; ethyl alcohol (CAS 64-17-5)	TWA	1920 mg/m3
		1000 ppm
methanol (CAS 67-56-1)	STEL	333 mg/m3
		250 ppm
	TWA	266 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	7,8 mg/m3
		2 ppm

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1

Components	Type	Value
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	STEL	1250 mg/m3
		500 ppm
	TWA	999 mg/m3
		400 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	191 mg/m3
		50 ppm

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

Components	Type	Value
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
		4 ppm
	TWA	8 mg/m3
		2 ppm
toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Biological limit values

Croatia. BELs (BGV). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and BELs, Annex IV (NN 91/2018), as amended

Components	Value	Determinant	Specimen	Sampling Time
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	3,5 mg/l	4-methylpentan-2-one	Urine	*
	35 nmol/l	4-methylpentan-2-one	Urine	*
methanol (CAS 67-56-1)	7 mg/g	Methanol	Creatinine in urine	*
	24,7 mmol/mol	Methanol	Creatinine in urine	*
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	120 mg/g	phenol	Creatinine in urine	*
	0,14 mol/mol	phenol	Creatinine in urine	*
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	50 mg/l	Acetone	Urine	*
	50 mg/l	Acetone	Blood	*
	0,86 umol/l	Acetone	Urine	*
	0,86 umol/l	Acetone	Blood	*

Croatia. BELs (BGV). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and BELs, Annex IV (NN 91/2018), as amended

Components	Value	Determinant	Specimen	Sampling Time
toluene (CAS 108-88-3)	2,5 g/g	Hippuric acid	Creatinine in urine	*
	1 mg/g	o-Cresol	Creatinine in urine	*
	1 mg/l	Toluene	Blood	*
	1,05 mmol/mol	o-Cresol	Creatinine in urine	*
	1,58 mol/mol	Hippuric acid	Creatinine in urine	*
	20 ppm	Toluene	End-exhaled air	*
	10,85 umol/l	Toluene	Blood	*
	0,83 umol/l	Toluene	End-exhaled air	*

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

Czech Republic. BELs. Government Decree 432/2003 Sb., as amended

Components	Value	Determinant	Specimen	Sampling Time
methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
	0,47 mmol/l	Methanol	Urine	*
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	360 µmol/mmol	phenol	Creatinine in urine	*
	300 mg/g	phenol	Creatinine in urine	*
toluene (CAS 108-88-3)	1,6 µmol/mmol	o-Cresol (with hydrolysis)	Creatinine in urine	*
	1,5 mg/g	o-Cresol (with hydrolysis)	Creatinine in urine	*

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

Finland. HTP-arvot, App 2., Biological Limit Values, Social Affairs and Ministry of Health

Components	Value	Determinant	Specimen	Sampling Time
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	1,3 mmol/l	Total phenol	Urine	*
toluene (CAS 108-88-3)	500 nmol/l	Toluene concentration	Blood	*

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

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

Components	Value	Determinant	Specimen	Sampling Time
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	2 mg/l	Méthylisobutylcétone	Urine	*
methanol (CAS 67-56-1)	15 mg/l	Méthanol	Urine	*
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	250 mg/g	Phènol total	Creatinine in urine	*
toluene (CAS 108-88-3)	2500 mg/g	Acide hippurique	Creatinine in urine	*
	2500 mg/g	Acide hippurique	Creatinine in urine	*
	1 mg/l	Toluène	Venous blood	*

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

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

Components	Value	Determinant	Specimen	Sampling Time
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	0,7 mg/l	4-Methylpentan -2-on	Urine	*
methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	120 mg/g	Phenol (nach Hydrolyse)	Creatinine in urine	*
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*
toluene (CAS 108-88-3)	75 µg/l	Toluol	Urine	*
	600 µg/l	Toluol	Blood	*
	1,5 mg/l	o-Kresol (nach Hydrolyse)	Urine	*

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

Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amended

Components	Value	Determinant	Specimen	Sampling Time
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	35 µmol/l	methyl isobutyl ketone	Urine	*
	3,5 mg/l	methyl isobutyl ketone	Urine	*
methanol (CAS 67-56-1)	940 µmol/l	Methanol	Urine	*
	30 mg/l	Methanol	Urine	*
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	144 µmol/mmol	phenol	Creatinine in urine	*
	120 mg/g	phenol	Creatinine in urine	*
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	430 µmol/l	Acetone	Urine	*
	25 mg/l	Acetone	Urine	*
toluene (CAS 108-88-3)	1 µmol/mmol	o-crezol	Creatinine in urine	*
	1 mg/g	o-crezol	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
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	2,36 mg/g	Methyl isobutyl ketone	Creatinine in urine	*
	3,5 mg/l	Methyl isobutyl ketone	Urine	*
methanol (CAS 67-56-1)	20 mg/g	Methanol	Creatinine in urine	*
	30 mg/l	Methanol	Urine	*
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	133,7 mg/g	phenol	Creatinine in urine	*
	200 mg/l	phenol	Urine	*
toluene (CAS 108-88-3)	600 µg/l	Toluene	Blood	*
	1600 mg/g	Hippuric acid	Creatinine in urine	*

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
	1,03 mg/g	o-Cresol	Creatinine in urine	*
	2401 mg/l	Hippuric acid	Urine	*
	1,5 mg/l	o-Cresol	Urine	*

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

Spain. BELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 3-Valores Límite Biológicos (VLB)

Components	Value	Determinant	Specimen	Sampling Time
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	1 mg/l	Metilisobutilcetona	Urine	*
methanol (CAS 67-56-1)	15 mg/l	Metanol	Urine	*
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	120 mg/g	Fenol, con hidrólisis	Creatinine in urine	*
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*
toluene (CAS 108-88-3)	0,08 mg/l	Tolueno	Urine	*
	0,05 mg/l	Tolueno	Blood	*

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

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte

Components	Value	Determinant	Specimen	Sampling Time
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	0,7 mg/l	4-Methylpentan-2-on	Urine	*
methanol (CAS 67-56-1)	30 mg/l	Methanol	Urine	*
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	250 mg/g	Phenol	Creatinine in urine	*
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*
toluene (CAS 108-88-3)	75 µg/l	Toluol	Urine	*
	600 µg/l	Toluol	Blood	*
	2 g/g	Hippursäure	Creatinine in urine	*
	0,5 mg/l	o-Kresol	Urine	*

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

UK. BELs. Biological Monitoring Guidance Values (BMGVs) (EH40/2005 (Fourth Edition 2020)), Table 2

Components	Value	Determinant	Specimen	Sampling Time
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	20 umol/l	4-Methylpentan-2-one	Urine	*

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

Austria MAK: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Belgium OELs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Bulgaria OELs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Croatia ELVs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Cyprus OEL: Skin designation

propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	Can be absorbed through the skin.

Czech Republic PELs: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Denmark GV: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Estonia OELs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

EU Exposure Limit Values: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Finland Exposure Limit Values: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

France INRS: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

France Mandatory OELs (VLEP): Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Germany DFG MAK (advisory): Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Germany TRGS 900 Limit Values: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Greece OEL: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Hungary OELs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Iceland OELs: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Ireland Exposure Limit Values: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Italy OELs: Skin designation

methanol (CAS 67-56-1)	Danger of cutaneous absorption
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Danger of cutaneous absorption
toluene (CAS 108-88-3)	Danger of cutaneous absorption

Latvia OELs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Lithuania OELs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Luxembourg OELs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Malta OELs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Netherlands OELs (binding): Skin designation

ethanol; ethyl alcohol (CAS 64-17-5)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.

Norway Exposure Limit Values: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Portugal OELs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Portugal VLEs Norm on Occupatioinal Exposure: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.

Romania OELs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Slovakia OELs: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	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)

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Spain OELs: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Sweden Threshold Limit Values: Skin designation

methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

Switzerland SUVA Limit Values at the Workplace: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

UK EH40 WEL: Skin designation

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Can be absorbed through the skin.
methanol (CAS 67-56-1)	Can be absorbed through the skin.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
toluene (CAS 108-88-3)	Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

General information	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece.
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves.
- Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Form	Liquid.
Color	Blue.
Odor	Solvent.
Melting point/freezing point	-138,82 °F (-94,9 °C) estimated
Boiling point or initial boiling point and boiling range	231,08 °F (110,6 °C) estimated
Flammability	Not applicable.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	1,27 % estimated
Explosive limit - upper (%)	8 % estimated
Flash point	50,0 °F (10,0 °C) estimated
Auto-ignition temperature	750,2 °F (399 °C) estimated
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapor pressure	40,87 hPa estimated
Density and/or relative density	
Density	0,85 g/cm3 estimated
Vapor density	Not available.
Particle characteristics	Not available.

9.2. Other information

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

9.2.2. Other safety characteristics

Percent volatile	80 %
Specific gravity	0,85 estimated
VOC	640 g/l

SECTION 10: Stability and reactivity

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

10.2. Chemical stability Material is stable under normal conditions.

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

10.4. Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

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

10.6. Hazardous decomposition products No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation Harmful if inhaled. May cause drowsiness or dizziness. Headache. Nausea, vomiting.

Skin contact Causes skin irritation.

Eye contact Causes serious eye irritation.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

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

Acute toxicity May be fatal if swallowed and enters airways. Harmful if inhaled.

Components	Species	Test Results
4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)		
Acute		
Dermal		
LD50	Rabbit	> 16000 mg/kg
Oral		
LD50	Rat	2,0800000000000001 g/kg
ethanol; ethyl alcohol (CAS 64-17-5)		
Acute		
Oral		
LD50	Rat	6,2000000000000002 g/kg
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)		
Acute		
Dermal		
LD50	Rabbit	12800 mg/kg
Inhalation		
LC50	Rat	51,0500000000000043 mg/l, 8 Hours
Oral		
LD50	Rat	4710 mg/kg
toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rat	12000 mg/kg
Oral		
LD50	Rat	2,6000000000000001 - 7,5 g/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization Due to partial or complete lack of data the classification is not possible.

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

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

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Mutagenic, Category 2.

Carcinogenicity Suspected of causing cancer.

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

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)
toluene (CAS 108-88-3)

IARC Monographs. Overall Evaluation of Carcinogenicity

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	2B Possibly carcinogenic to humans.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	3 Not classifiable as to carcinogenicity to humans.
toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity - single exposure May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

Mixture versus substance information No information available.

11.2. Information on other hazards

Endocrine disrupting properties This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

12.2. Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

4-methylpentan-2-one; isobutyl methyl ketone	1,31
ethanol; ethyl alcohol	-0,31
methanol	-0,77
phenol; carbolic acid; monohydroxybenzene; phenylalcohol	1,46
propan-2-ol; isopropyl alcohol; isopropanol	0,05
toluene	2,73

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting properties This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

12.7. Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

12.8. Additional information

Estonia Dangerous substances in soil Data

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Chemical pesticides (As the total sum of the active substances) 0,5 MG/KG Chemical pesticides (As the total sum of the active substances) 20 MG/KG Chemical pesticides (As the total sum of the active substances) 5 MG/KG

ethanol; ethyl alcohol (CAS 64-17-5)	Chemical pesticides (As the total sum of the active substances) 0,5 MG/KG Chemical pesticides (As the total sum of the active substances) 20 MG/KG Chemical pesticides (As the total sum of the active substances) 5 MG/KG
methanol (CAS 67-56-1)	Chemical pesticides (As the total sum of the active substances) 0,5 MG/KG Chemical pesticides (As the total sum of the active substances) 20 MG/KG Chemical pesticides (As the total sum of the active substances) 5 MG/KG
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Hydroxybenzene (As the sum of Phenols) 0,1 MG/KG Hydroxybenzene (As the sum of Phenols) 1 MG/KG Hydroxybenzene (As the sum of Phenols) 10 MG/KG
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	Chemical pesticides (As the total sum of the active substances) 0,5 MG/KG Chemical pesticides (As the total sum of the active substances) 20 MG/KG Chemical pesticides (As the total sum of the active substances) 5 MG/KG
toluene (CAS 108-88-3)	TOLUENE 0,1 MG/KG TOLUENE 100 MG/KG TOLUENE 3 MG/KG

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1993

14.2. UN proper shipping name FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C more than 110 kPa)

14.3. Transport hazard class(es)

Class 3

Subsidiary risk -

Label(s) 3

Hazard No. (ADR) 33

Tunnel restriction code D/E

14.4. Packing group II

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 UN1993

14.2. UN proper shipping name FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C not more than 110 kPa)

14.3. Transport hazard class(es)

Class 3

Subsidiary risk -

Label(s) 3

14.4. Packing group II

14.5. Environmental hazards No.

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

ADN

14.1. UN number	UN1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN1993
14.2. UN proper shipping name	Flammable liquid, n.o.s. (Toluene, 4-methylpentan-2-one; isobutyl methyl ketone), Limited Quantity
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	No.
ERG Code	3H
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

IMDG

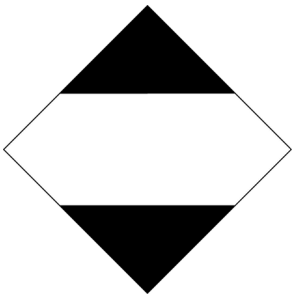
14.1. UN number	UN1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Toluene, 4-methylpentan-2-one; isobutyl methyl ketone), Limited Quantity
14.3. Transport hazard class(es)	
Class	3
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-E
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

14.7. Maritime transport in bulk according to IMO instruments Not established.

ADN; ADR; RID

IATA

IMDG



SECTION 15: Regulatory information

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

EU regulations

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

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

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

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)
toluene (CAS 108-88-3)

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

Not listed.

UFI:

Austria: FN70-W07U-T00T-P4YE
Belgium: FN70-W07U-T00T-P4YE
Bulgaria: FN70-W07U-T00T-P4YE
Croatia: FN70-W07U-T00T-P4YE
Cyprus: FN70-W07U-T00T-P4YE
Czech Republic: FN70-W07U-T00T-P4YE
Denmark: FN70-W07U-T00T-P4YE
Estonia: FN70-W07U-T00T-P4YE
EU: FN70-W07U-T00T-P4YE
Finland: FN70-W07U-T00T-P4YE
France: FN70-W07U-T00T-P4YE
Germany: FN70-W07U-T00T-P4YE
Greece: FN70-W07U-T00T-P4YE
Hungary: FN70-W07U-T00T-P4YE
Iceland: FN70-W07U-T00T-P4YE
Ireland: FN70-W07U-T00T-P4YE
Italy: FN70-W07U-T00T-P4YE
Latvia: FN70-W07U-T00T-P4YE
Lithuania: FN70-W07U-T00T-P4YE
Luxembourg: FN70-W07U-T00T-P4YE
Malta: FN70-W07U-T00T-P4YE
Netherlands: FN70-W07U-T00T-P4YE
Norway: FN70-W07U-T00T-P4YE
Poland: FN70-W07U-T00T-P4YE
Portugal: FN70-W07U-T00T-P4YE
Romania: FN70-W07U-T00T-P4YE
Slovakia: FN70-W07U-T00T-P4YE
Slovenia: FN70-W07U-T00T-P4YE
Spain: FN70-W07U-T00T-P4YE
Sweden: FN70-W07U-T00T-P4YE

Authorizations

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 - Conditions of restriction given for the associated entry number should be considered

ethanol; ethyl alcohol (CAS 64-17-5)	40
methanol (CAS 67-56-1)	69
toluene (CAS 108-88-3)	48

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

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)
toluene (CAS 108-88-3)

Other EU regulations

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

ANNEX 1, PART 1 Categories of dangerous substances
Hazard categories in accordance with Regulation (EC) No 1272/2008
- P5a, b or c FLAMMABLE LIQUIDS
- E2 Hazardous to the Aquatic Environment Chronic

Other regulations

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

National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

France regulations

France INRS Table of Occupational Diseases

4-methylpentan-2-one; isobutyl methyl ketone (CAS 108-10-1)	Affections engendrées par les solvants organiques liquides à usage professionnel : hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques; al 84

ethanol; ethyl alcohol (CAS 64-17-5)	Affections engendrées par les solvants organiques liquides à usage professionnel : hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques; al 84
methanol (CAS 67-56-1)	Affections engendrées par les solvants organiques liquides à usage professionnel : hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques; al 84
propan-2-ol; isopropyl alcohol; isopropanol (CAS 67-63-0)	Affections engendrées par les solvants organiques liquides à usage professionnel : hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques; al 84

Product registration number

Austria	UFI: FN70-W07U-T00T-P4YE
Belgium	UFI: FN70-W07U-T00T-P4YE
Czech Republic	UFI: FN70-W07U-T00T-P4YE
Denmark	UFI: FN70-W07U-T00T-P4YE
European Union	UFI: FN70-W07U-T00T-P4YE
Finland	UFI: FN70-W07U-T00T-P4YE
France	UFI: FN70-W07U-T00T-P4YE
Germany	UFI: FN70-W07U-T00T-P4YE
Greece	UFI: FN70-W07U-T00T-P4YE
Hungary	UFI: FN70-W07U-T00T-P4YE
Italy	UFI: FN70-W07U-T00T-P4YE
Netherlands	UFI: FN70-W07U-T00T-P4YE
Norway	UFI: FN70-W07U-T00T-P4YE
Poland	UFI: FN70-W07U-T00T-P4YE
Portugal	UFI: FN70-W07U-T00T-P4YE
Slovakia	UFI: FN70-W07U-T00T-P4YE
Slovenia	UFI: FN70-W07U-T00T-P4YE
Spain	UFI: FN70-W07U-T00T-P4YE
Sweden	UFI: FN70-W07U-T00T-P4YE
Switzerland	UFI: FN70-W07U-T00T-P4YE

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).
CAS: Chemical Abstract Service.
CEN: European Committee for Standardization.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MAC: Maximum Allowed Concentration.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative and toxic.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
STEL: Short term exposure limit.
TLV: Threshold Limit Value.
TWA: Time Weighted Average.
VLE: Exposure Limit Value.
VME: Exposure Average Value.
vPvB: Very persistent and very bioaccumulative.

References Not available.

Information on evaluation method leading to the classification of mixture The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15 H225 Highly flammable liquid and vapor.

H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H370 Causes damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Revision information

None.

Training information

Follow training instructions when handling this material.

Disclaimer

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information 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 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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.