

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

1.1. Product identifier

Trade name or designation of the mixture	USC Economy Lacquer Thinner
Registration number	-
Synonyms	None.
Product Code	110-1
Issue date	04-16-2015
Version number	01

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

Identified uses	Automotive Refinish Reducer/Thinner
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	Quest Automotive Products	
Address	600 Nova Drive SE Massillon, OH 44646 US	
Division	Massillon	
Telephone	General Assistance	(330) 830-6000
e-mail	rpandrus@quest-ap.com	
Contact person	Not available.	

1.4. Emergency telephone number	CHEMTREC	(800) 424-9300
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification F;R11, T;R39/23/24/25, Xn;R20/21/22, Xi;R36, R66

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

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

Physical hazards

Flammable liquids	Category 2	H225 - Highly flammable liquid and vapor.
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Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Acute toxicity, inhalation	Category 4	H332 - Harmful if inhaled.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Reproductive toxicity (the unborn child)	Category 2	H361d - Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure	Category 1	H370 - Causes damage to organs.
Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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Hazard summary

Physical hazards	Highly flammable.
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Health hazards	Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Repeated exposure may cause skin dryness or cracking. Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Prolonged exposure may cause chronic effects.
Main symptoms	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

2.2. Label elements

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

Contains: 1-methylethyl acetate, 2-butanone, acetone, isopropanol, methanol, n-butyl acetate, Toluene

Hazard pictograms



Signal word

Danger

Hazard statements

H225	Highly flammable liquid and vapor.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H412	Harmful 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.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe mist or vapor.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.

Response

P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
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 + P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P330	Rinse mouth.
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.

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.
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Supplemental label information

23,55% of the mixture consists of component(s) of unknown acute dermal toxicity. 42,1% of the mixture consists of component(s) of unknown acute inhalation toxicity. 50,35% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. EUH066 - Repeated exposure may cause skin dryness or cracking.

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-butanone	20 - < 30	78-93-3 201-159-0	-	606-002-00-3	#
Classification:	DSD: F;R11, Xi;R36, R66-67				
	CLP: -				
acetone	20 - < 30	67-64-1 200-662-2	-	606-001-00-8	#
Classification:	DSD: F;R11, Xi;R36, R66-67				
	CLP: -				
methanol	10 - < 20	67-56-1 200-659-6	-	603-001-00-X	#
Classification:	DSD: F;R11, T;R23/24/25-39/23/24/25				
	CLP: -				
1-methylethyl acetate	5 - < 10	108-21-4 203-561-1	-	607-024-00-6	
Classification:	DSD: F;R11, Xi;R36, R66-67				C
	CLP: -				C
Ethanol	5 - < 10	64-17-5 200-578-6	-	603-002-00-5	
Classification:	DSD: F;R11, Xi;R36				
	CLP: -				
isopropanol	5 - < 10	67-63-0 200-661-7	-	603-117-00-0	
Classification:	DSD: F;R11, Xi;R36, R67				
	CLP: -				
n-butyl acetate	5 - < 10	123-86-4 204-658-1	-	607-025-00-1	
Classification:	DSD: R10, R66-67				
	CLP: Flam. Liq. 3;H226, STOT SE 3;H336, Aquatic Chronic 3;H412				
Toluene	3 - < 5	108-88-3 203-625-9	-	601-021-00-3	#
Classification:	DSD: F;R11, Repr. Cat. 3;R63, Xn;R65-48/20, Xi;R38, R67				
	CLP: Flam. Liq. 2;H225, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336, Repr. 2;H361d, STOT RE 2;H373, Aquatic Chronic 2;H411				
4-Methyl-2-pentanone	< 0,2	108-10-1 203-550-1	-	606-004-00-4	#
Classification:	DSD: F;R11, Xn;R20, Xi;R36/37, R66				
	CLP: -				

Other components below reportable levels 5 - < 10

List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

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

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

SECTION 4: First aid measures

General information Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. 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. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. 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 Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

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 Alcohol resistant foam. Water fog. 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 Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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. For personal protection, see section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.

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

6.3. Methods and material for containment and cleaning up

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

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. 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.

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. 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 or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. 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. Wash contaminated clothing before reuse. 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 original 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).

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	Ceiling	420 mg/m ³
		100 ppm
	MAK	420 mg/m ³
2-butanone (CAS 78-93-3)		100 ppm
	MAK	295 mg/m ³
	STEL	100 ppm
4-Methyl-2-pentanone (CAS 108-10-1)		590 mg/m ³
	MAK	200 ppm
	STEL	83 mg/m ³
acetone (CAS 67-64-1)		20 ppm
	MAK	208 mg/m ³
	STEL	50 ppm
Ethanol (CAS 64-17-5)	MAK	1200 mg/m ³
	STEL	500 ppm
	Ceiling	4800 mg/m ³
isopropanol (CAS 67-63-0)		2000 ppm
	MAK	3800 mg/m ³
	STEL	2000 ppm
	MAK	1900 mg/m ³
		1000 ppm
	MAK	500 mg/m ³
		200 ppm
	STEL	2000 mg/m ³
		800 ppm

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

Components	Type	Value
methanol (CAS 67-56-1)	MAK	260 mg/m3 200 ppm
	STEL	1040 mg/m3 800 ppm
n-butyl acetate (CAS 123-86-4)	Ceiling	480 mg/m3
	MAK	100 ppm 480 mg/m3
Toluene (CAS 108-88-3)	MAK	100 ppm 190 mg/m3
	STEL	50 ppm 380 mg/m3 100 ppm

Belgium. Exposure Limit Values.

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	849 mg/m3
	TWA	200 ppm 424 mg/m3
2-butanone (CAS 78-93-3)	STEL	100 ppm 900 mg/m3
	TWA	300 ppm 600 mg/m3
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 ppm 208 mg/m3
	TWA	50 ppm 83 mg/m3
acetone (CAS 67-64-1)	STEL	20 ppm 2420 mg/m3
	TWA	1000 ppm 1210 mg/m3
Ethanol (CAS 64-17-5)	TWA	500 ppm 1907 mg/m3
	STEL	1000 ppm
isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
	TWA	400 ppm 500 mg/m3
methanol (CAS 67-56-1)	STEL	200 ppm 333 mg/m3
	TWA	250 ppm 266 mg/m3
n-butyl acetate (CAS 123-86-4)	STEL	200 ppm 964 mg/m3
	TWA	723 mg/m3
Toluene (CAS 108-88-3)	STEL	150 ppm 384 mg/m3
	TWA	100 ppm 77 mg/m3 20 ppm

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

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	885 mg/m3
	TWA	590 mg/m3
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 mg/m3
	TWA	50 mg/m3
acetone (CAS 67-64-1)	STEL	1400 mg/m3

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

Components	Type	Value
	TWA	600 mg/m3
Ethanol (CAS 64-17-5)	TWA	1000 mg/m3
isopropanol (CAS 67-63-0)	STEL	1225 mg/m3
	TWA	980 mg/m3
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
n-butyl acetate (CAS 123-86-4)	STEL	950 mg/m3
	TWA	710 mg/m3
Toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

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

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	849 mg/m3
		200 ppm
2-butanone (CAS 78-93-3)	MAC	600 mg/m3
	STEL	200 ppm
		900 mg/m3
		300 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	MAC	83 mg/m3
	STEL	20 ppm
		208 mg/m3
		50 ppm
acetone (CAS 67-64-1)	MAC	1210 mg/m3
	STEL	500 ppm
		3620 mg/m3
		1500 ppm
Ethanol (CAS 64-17-5)	MAC	1900 mg/m3
		1000 ppm
isopropanol (CAS 67-63-0)	MAC	999 mg/m3
	STEL	400 ppm
		1250 mg/m3
		500 ppm
methanol (CAS 67-56-1)	MAC	260 mg/m3
		200 ppm
n-butyl acetate (CAS 123-86-4)	MAC	724 mg/m3
	STEL	150 ppm
		966 mg/m3
		200 ppm
Toluene (CAS 108-88-3)	MAC	192 mg/m3
	STEL	50 ppm
		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
1-methylethyl acetate (CAS 108-21-4)	TWA	950 mg/m3
		250 ppm
isopropanol (CAS 67-63-0)	TWA	980 mg/m3
		400 ppm
n-butyl acetate (CAS 123-86-4)	TWA	710 mg/m3
		150 ppm

Czech Republic. OELs. Government Decree 361

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	Ceiling	1000 mg/m3
	TWA	800 mg/m3
2-butanone (CAS 78-93-3)	Ceiling	900 mg/m3
	TWA	600 mg/m3
4-Methyl-2-pentanone (CAS 108-10-1)	Ceiling	200 mg/m3
	TWA	80 mg/m3
acetone (CAS 67-64-1)	Ceiling	1500 mg/m3
	TWA	800 mg/m3
Ethanol (CAS 64-17-5)	Ceiling	3000 mg/m3
	TWA	1000 mg/m3
isopropanol (CAS 67-63-0)	Ceiling	1000 mg/m3
	TWA	500 mg/m3
methanol (CAS 67-56-1)	Ceiling	1000 mg/m3
	TWA	250 mg/m3
n-butyl acetate (CAS 123-86-4)	Ceiling	1200 mg/m3
	TWA	950 mg/m3
Toluene (CAS 108-88-3)	Ceiling	500 mg/m3
	TWA	200 mg/m3

Denmark. Exposure Limit Values

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	TLV	625 mg/m3
		150 ppm
2-butanone (CAS 78-93-3)	TLV	145 mg/m3
		50 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	TLV	83 mg/m3
		20 ppm
acetone (CAS 67-64-1)	TLV	600 mg/m3
		250 ppm
Ethanol (CAS 64-17-5)	TLV	1900 mg/m3
		1000 ppm
isopropanol (CAS 67-63-0)	TLV	490 mg/m3
		200 ppm
methanol (CAS 67-56-1)	TLV	260 mg/m3
		200 ppm
n-butyl acetate (CAS 123-86-4)	TLV	710 mg/m3
		150 ppm
Toluene (CAS 108-88-3)	TLV	94 mg/m3
		25 ppm

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

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m3
		300 ppm
		600 mg/m3
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 ppm
		208 mg/m3
		50 ppm
acetone (CAS 67-64-1)	TWA	83 mg/m3
		20 ppm
		1210 mg/m3
Ethanol (CAS 64-17-5)	STEL	500 ppm
		1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
		500 ppm

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

Components	Type	Value
isopropanol (CAS 67-63-0)	STEL	600 mg/m ³ 250 ppm
	TWA	350 mg/m ³ 150 ppm
methanol (CAS 67-56-1)	STEL	350 mg/m ³ 250 ppm
	TWA	250 mg/m ³ 200 ppm
n-butyl acetate (CAS 123-86-4)	STEL	700 mg/m ³ 150 ppm
	TWA	500 mg/m ³ 100 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m ³ 100 ppm
	TWA	192 mg/m ³ 50 ppm

Finland. Workplace Exposure Limits

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	850 mg/m ³ 200 ppm
	TWA	420 mg/m ³ 100 ppm
2-butanone (CAS 78-93-3)	STEL	300 mg/m ³ 100 ppm
	TWA	210 mg/m ³ 50 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	210 mg/m ³ 80 mg/m ³
	TWA	80 mg/m ³ 20 ppm
acetone (CAS 67-64-1)	STEL	1500 mg/m ³ 630 ppm
	TWA	1200 mg/m ³ 500 ppm
Ethanol (CAS 64-17-5)	STEL	2500 mg/m ³ 1300 ppm
	TWA	1900 mg/m ³ 1000 ppm
isopropanol (CAS 67-63-0)	STEL	620 mg/m ³ 250 ppm
	TWA	500 mg/m ³ 200 ppm
methanol (CAS 67-56-1)	STEL	330 mg/m ³ 250 ppm
	TWA	270 mg/m ³ 200 ppm
n-butyl acetate (CAS 123-86-4)	STEL	960 mg/m ³ 200 ppm
	TWA	720 mg/m ³ 150 ppm
Toluene (CAS 108-88-3)	STEL	380 mg/m ³ 100 ppm
	TWA	81 mg/m ³ 25 ppm

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

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	VLE	1140 mg/m ³ 300 ppm

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

Components	Type	Value
	VME	950 mg/m3
2-butanone (CAS 78-93-3)	VLE	250 ppm 900 mg/m3 300 ppm
	VME	600 mg/m3
4-Methyl-2-pentanone (CAS 108-10-1)	VLE	200 ppm 208 mg/m3
	VME	50 ppm 83 mg/m3
acetone (CAS 67-64-1)	VLE	20 ppm 2420 mg/m3 1000 ppm
	VME	1210 mg/m3
Ethanol (CAS 64-17-5)	VLE	500 ppm 9500 mg/m3 5000 ppm
	VME	1900 mg/m3
isopropanol (CAS 67-63-0)	VLE	1000 ppm 980 mg/m3 400 ppm
methanol (CAS 67-56-1)	VLE	1300 mg/m3 1000 ppm
	VME	260 mg/m3
n-butyl acetate (CAS 123-86-4)	VLE	200 ppm 940 mg/m3
	VME	710 mg/m3
Toluene (CAS 108-88-3)	VLE	150 ppm 384 mg/m3 100 ppm
	VME	76,8 mg/m3 20 ppm

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

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	TWA	420 mg/m3
		100 ppm
2-butanone (CAS 78-93-3)	TWA	600 mg/m3 200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	TWA	83 mg/m3
		20 ppm
acetone (CAS 67-64-1)	TWA	1200 mg/m3 500 ppm
Ethanol (CAS 64-17-5)	TWA	960 mg/m3 500 ppm
isopropanol (CAS 67-63-0)	TWA	500 mg/m3 200 ppm
methanol (CAS 67-56-1)	TWA	270 mg/m3 200 ppm
n-butyl acetate (CAS 123-86-4)	TWA	480 mg/m3
		100 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
2-butanone (CAS 78-93-3)	AGW	600 mg/m3 200 ppm

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	AGW	83 mg/m3
acetone (CAS 67-64-1)	AGW	20 ppm 1200 mg/m3
Ethanol (CAS 64-17-5)	AGW	500 ppm 960 mg/m3
isopropanol (CAS 67-63-0)	AGW	500 ppm 500 mg/m3
methanol (CAS 67-56-1)	AGW	200 ppm 270 mg/m3
n-butyl acetate (CAS 123-86-4)	AGW	200 ppm 300 mg/m3
Toluene (CAS 108-88-3)	AGW	62 ppm 190 mg/m3 50 ppm

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

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	1140 mg/m3
	TWA	275 ppm 950 mg/m3
2-butanone (CAS 78-93-3)	STEL	250 ppm 900 mg/m3
	TWA	300 ppm 600 mg/m3
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 ppm 410 mg/m3
	TWA	100 ppm 410 mg/m3
acetone (CAS 67-64-1)	STEL	100 ppm 3560 mg/m3
	TWA	1780 mg/m3
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3
isopropanol (CAS 67-63-0)	STEL	1000 ppm 1225 mg/m3
	TWA	500 ppm 980 mg/m3
methanol (CAS 67-56-1)	STEL	400 ppm 325 mg/m3
	TWA	250 ppm 260 mg/m3
n-butyl acetate (CAS 123-86-4)	STEL	200 ppm 950 mg/m3
	TWA	710 mg/m3
Toluene (CAS 108-88-3)	STEL	150 ppm 384 mg/m3
	TWA	100 ppm 192 mg/m3 50 ppm

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	840 mg/m3
	TWA	840 mg/m3
2-butanone (CAS 78-93-3)	STEL	900 mg/m3
	TWA	600 mg/m3
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
	TWA	83 mg/m3
acetone (CAS 67-64-1)	STEL	2420 mg/m3
	TWA	1210 mg/m3
Ethanol (CAS 64-17-5)	STEL	7600 mg/m3
	TWA	1900 mg/m3
isopropanol (CAS 67-63-0)	STEL	2000 mg/m3
	TWA	500 mg/m3
methanol (CAS 67-56-1)	TWA	260 mg/m3
n-butyl acetate (CAS 123-86-4)	STEL	950 mg/m3
	TWA	950 mg/m3
Toluene (CAS 108-88-3)	STEL	380 mg/m3
	TWA	190 mg/m3

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

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	TWA	625 mg/m3
		150 ppm
2-butanone (CAS 78-93-3)	STEL	900 mg/m3
		300 ppm
	TWA	145 mg/m3
		50 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
acetone (CAS 67-64-1)	TWA	600 mg/m3
		250 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3
		1000 ppm
isopropanol (CAS 67-63-0)	TWA	490 mg/m3
		200 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3
		200 ppm
n-butyl acetate (CAS 123-86-4)	TWA	700 mg/m3
		150 ppm
Toluene (CAS 108-88-3)	STEL	188 mg/m3
		50 ppm
	TWA	94 mg/m3
		25 ppm

Ireland. Occupational Exposure Limits

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	200 ppm
	TWA	100 ppm
2-butanone (CAS 78-93-3)	STEL	900 mg/m3
		300 ppm
	TWA	600 mg/m3
		200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
		20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3
		500 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3

Ireland. Occupational Exposure Limits Components

Type	Value
STEL	200 ppm 950 mg/m3
TWA	200 ppm 710 mg/m3
STEL	150 ppm 384 mg/m3
TWA	100 ppm 192 mg/m3 50 ppm

Italy. Occupational Exposure Limits Components

Type	Value
STEL	200 ppm
TWA	100 ppm
STEL	900 mg/m3 300 ppm
TWA	600 mg/m3 200 ppm
STEL	208 mg/m3
TWA	50 ppm 83 mg/m3 20 ppm
TWA	1210 mg/m3 500 ppm
STEL	1000 ppm
STEL	400 ppm
TWA	200 ppm
TWA	260 mg/m3 200 ppm
STEL	200 ppm
TWA	150 ppm
TWA	192 mg/m3 50 ppm

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

Type	Value
STEL	900 mg/m3 300 ppm
TWA	200 mg/m3 67 ppm
STEL	208 mg/m3
TWA	50 ppm 83 mg/m3 20 ppm
TWA	1210 mg/m3 500 ppm
TWA	1000 mg/m3
STEL	600 mg/m3
TWA	350 mg/m3
TWA	260 mg/m3 200 ppm
TWA	200 mg/m3
STEL	150 mg/m3 40 ppm
TWA	50 mg/m3 14 ppm

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

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m3 300 ppm
	TWA	600 mg/m3 200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3 50 ppm
	TWA	83 mg/m3 20 ppm
acetone (CAS 67-64-1)	STEL	2420 mg/m3 1000 ppm
	TWA	1210 mg/m3 500 ppm
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3 1000 ppm
	TWA	1000 mg/m3 500 ppm
isopropanol (CAS 67-63-0)	STEL	600 mg/m3 250 ppm
	TWA	350 mg/m3 150 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
	STEL	700 mg/m3 150 ppm
n-butyl acetate (CAS 123-86-4)	TWA	500 mg/m3 100 ppm
	STEL	384 mg/m3 100 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm

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

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m3 300 ppm
	TWA	600 mg/m3 200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3 50 ppm
	TWA	83 mg/m3 20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm

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

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m3 300 ppm
	TWA	600 mg/m3 200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3 50 ppm

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

Components	Type	Value
	TWA	83 mg/m ³
		20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m ³
		500 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m ³
		200 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m ³
		100 ppm
	TWA	192 mg/m ³
		50 ppm

Netherlands. OELs (binding)

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m ³
	TWA	590 mg/m ³
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m ³
	TWA	104 mg/m ³
acetone (CAS 67-64-1)	STEL	2420 mg/m ³
	TWA	1210 mg/m ³
Ethanol (CAS 64-17-5)	STEL	1900 mg/m ³
	TWA	260 mg/m ³
methanol (CAS 67-56-1)	TWA	133 mg/m ³
Toluene (CAS 108-88-3)	STEL	384 mg/m ³
	TWA	150 mg/m ³

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	TLV	420 mg/m ³
		100 ppm
2-butanone (CAS 78-93-3)	TLV	220 mg/m ³
		75 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m ³
		50 ppm
	TLV	83 mg/m ³
		20 ppm
acetone (CAS 67-64-1)	TLV	295 mg/m ³
		125 ppm
Ethanol (CAS 64-17-5)	TLV	950 mg/m ³
		500 ppm
isopropanol (CAS 67-63-0)	TLV	245 mg/m ³
		100 ppm
methanol (CAS 67-56-1)	TLV	130 mg/m ³
		100 ppm
n-butyl acetate (CAS 123-86-4)	TLV	355 mg/m ³
		75 ppm
Toluene (CAS 108-88-3)	TLV	94 mg/m ³
		25 ppm

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	1000 mg/m ³
	TWA	600 mg/m ³
2-butanone (CAS 78-93-3)	STEL	900 mg/m ³
	TWA	450 mg/m ³
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 mg/m ³
	TWA	83 mg/m ³

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Components	Type	Value
acetone (CAS 67-64-1)	STEL	1800 mg/m ³
	TWA	600 mg/m ³
Ethanol (CAS 64-17-5)	TWA	1900 mg/m ³
	STEL	1200 mg/m ³
isopropanol (CAS 67-63-0)	TWA	900 mg/m ³
	STEL	300 mg/m ³
methanol (CAS 67-56-1)	TWA	100 mg/m ³
	STEL	950 mg/m ³
n-butyl acetate (CAS 123-86-4)	TWA	200 mg/m ³
	STEL	200 mg/m ³
Toluene (CAS 108-88-3)	TWA	100 mg/m ³

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

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m ³ 300 ppm
	TWA	600 mg/m ³ 200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m ³ 50 ppm
	TWA	83 mg/m ³ 20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m ³ 500 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m ³ 200 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m ³ 100 ppm
	TWA	192 mg/m ³ 50 ppm

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

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	200 ppm
	TWA	100 ppm
2-butanone (CAS 78-93-3)	STEL	300 ppm
	TWA	200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	75 ppm
	TWA	50 ppm
acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Ethanol (CAS 64-17-5)	TWA	1000 ppm
isopropanol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm
methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
n-butyl acetate (CAS 123-86-4)	STEL	200 ppm
	TWA	150 ppm
Toluene (CAS 108-88-3)	TWA	50 ppm

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

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m ³ 300 ppm
	TWA	600 mg/m ³ 200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m ³

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

Components	Type	Value
		50 ppm
	TWA	200 mg/m3
acetone (CAS 67-64-1)	TWA	20 ppm 1210 mg/m3
Ethanol (CAS 64-17-5)	STEL	500 ppm 9500 mg/m3
	TWA	5000 ppm 1900 mg/m3
isopropanol (CAS 67-63-0)	STEL	1000 ppm 500 mg/m3
	TWA	203 ppm 200 mg/m3
methanol (CAS 67-56-1)	STEL	81 ppm 5 ppm
	TWA	260 mg/m3
n-butyl acetate (CAS 123-86-4)	STEL	200 ppm 950 mg/m3
	TWA	200 ppm 715 mg/m3
Toluene (CAS 108-88-3)	STEL	150 ppm 384 mg/m3
	TWA	100 ppm 192 mg/m3
		50 ppm

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

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m3
	TWA	300 ppm 600 mg/m3
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 ppm 166 mg/m3
	TWA	40 ppm 83 mg/m3
acetone (CAS 67-64-1)	TWA	20 ppm 1210 mg/m3
Ethanol (CAS 64-17-5)	STEL	500 ppm 1920 mg/m3
	TWA	1000 ppm 960 mg/m3
isopropanol (CAS 67-63-0)	STEL	500 ppm 1000 mg/m3
	TWA	400 ppm 500 mg/m3
methanol (CAS 67-56-1)	TWA	200 ppm 260 mg/m3
n-butyl acetate (CAS 123-86-4)	STEL	200 ppm 700 mg/m3
	TWA	150 ppm 500 mg/m3
Toluene (CAS 108-88-3)	STEL	100 ppm 384 mg/m3
	TWA	100 ppm 192 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	Type	Value
1-methylethyl acetate (CAS 108-21-4)	TWA	420 mg/m ³
		100 ppm
2-butanone (CAS 78-93-3)	TWA	600 mg/m ³
		200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	TWA	83 mg/m ³
		20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m ³
		500 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m ³
		1000 ppm
isopropanol (CAS 67-63-0)	TWA	500 mg/m ³
		200 ppm
methanol (CAS 67-56-1)	TWA	260 mg/m ³
		200 ppm
n-butyl acetate (CAS 123-86-4)	TWA	480 mg/m ³
		100 ppm
Toluene (CAS 108-88-3)	TWA	192 mg/m ³
		50 ppm

Spain. Occupational Exposure Limits

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	850 mg/m ³
	TWA	200 ppm
		425 mg/m ³
2-butanone (CAS 78-93-3)	STEL	900 mg/m ³
	TWA	300 ppm
		600 mg/m ³
		200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m ³
	TWA	50 ppm
		83 mg/m ³
		20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m ³
		500 ppm
Ethanol (CAS 64-17-5)	STEL	1910 mg/m ³
		1000 ppm
isopropanol (CAS 67-63-0)	STEL	1000 mg/m ³
	TWA	400 ppm
		500 mg/m ³
methanol (CAS 67-56-1)	TWA	200 ppm
		266 mg/m ³
		200 ppm
n-butyl acetate (CAS 123-86-4)	STEL	965 mg/m ³
	TWA	200 ppm
		724 mg/m ³
		150 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m ³
	TWA	100 ppm
		192 mg/m ³
		50 ppm

Sweden. Occupational Exposure Limit Values

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	800 mg/m ³
		200 ppm

Sweden. Occupational Exposure Limit Values

Components	Type	Value
	TWA	400 mg/m3
		100 ppm
2-butanone (CAS 78-93-3)	STEL	300 mg/m3
		100 ppm
	TWA	150 mg/m3
		50 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 mg/m3
		50 ppm
	TWA	100 mg/m3
		25 ppm
acetone (CAS 67-64-1)	STEL	1200 mg/m3
		500 ppm
	TWA	600 mg/m3
		250 ppm
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
		500 ppm
isopropanol (CAS 67-63-0)	STEL	600 mg/m3
		250 ppm
	TWA	350 mg/m3
		150 ppm
methanol (CAS 67-56-1)	STEL	350 mg/m3
		250 ppm
	TWA	250 mg/m3
		200 ppm
n-butyl acetate (CAS 123-86-4)	STEL	700 mg/m3
		150 ppm
	TWA	500 mg/m3
		100 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3
		100 ppm
	TWA	192 mg/m3
		50 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	840 mg/m3
		200 ppm
	TWA	420 mg/m3
		100 ppm
2-butanone (CAS 78-93-3)	STEL	590 mg/m3
		200 ppm
	TWA	590 mg/m3
		200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	164 mg/m3
		40 ppm
	TWA	82 mg/m3
		20 ppm
acetone (CAS 67-64-1)	STEL	2400 mg/m3
		1000 ppm
	TWA	1200 mg/m3
		500 ppm
Ethanol (CAS 64-17-5)	STEL	1920 mg/m3
		1000 ppm
	TWA	960 mg/m3
		500 ppm
isopropanol (CAS 67-63-0)	STEL	1000 mg/m3
		400 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value
methanol (CAS 67-56-1)	TWA	500 mg/m3 200 ppm
	STEL	1040 mg/m3 800 ppm
n-butyl acetate (CAS 123-86-4)	TWA	260 mg/m3 200 ppm
	STEL	960 mg/m3
Toluene (CAS 108-88-3)	TWA	200 ppm 480 mg/m3 100 ppm
	STEL	760 mg/m3 200 ppm
	TWA	190 mg/m3 50 ppm

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
1-methylethyl acetate (CAS 108-21-4)	STEL	849 mg/m3
2-butanone (CAS 78-93-3)	STEL	200 ppm 899 mg/m3 300 ppm
	TWA	600 mg/m3 200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	416 mg/m3
	TWA	100 ppm 208 mg/m3 50 ppm
acetone (CAS 67-64-1)	STEL	3620 mg/m3 1500 ppm
	TWA	1210 mg/m3 500 ppm
Ethanol (CAS 64-17-5)	TWA	1920 mg/m3 1000 ppm
isopropanol (CAS 67-63-0)	STEL	1250 mg/m3 500 ppm
	TWA	999 mg/m3 400 ppm
methanol (CAS 67-56-1)	STEL	333 mg/m3 250 ppm
	TWA	266 mg/m3 200 ppm
n-butyl acetate (CAS 123-86-4)	STEL	966 mg/m3
	TWA	200 ppm 724 mg/m3 150 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

Components	Type	Value
2-butanone (CAS 78-93-3)	STEL	900 mg/m3 300 ppm
	TWA	600 mg/m3 200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm

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

Components	Type	Value
	TWA	83 mg/m ³
acetone (CAS 67-64-1)	TWA	20 ppm 1210 mg/m ³
methanol (CAS 67-56-1)	TWA	500 ppm 260 mg/m ³
Toluene (CAS 108-88-3)	STEL	200 ppm 384 mg/m ³
	TWA	100 ppm 192 mg/m ³ 50 ppm

Biological limit values

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

Components	Value	Determinant	Specimen	Sampling Time
methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
	0,47 mmol/l	Methanol	Urine	*
Toluene (CAS 108-88-3)	1000 µmol/mmol	Hippuric acid	Creatinine in urine	*
	1600 mg/g	Hippuric acid	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
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
2-butanone (CAS 78-93-3)	2 mg/l	Méthyléthylcétone	Urine	*
4-Methyl-2-pentanone (CAS 108-10-1)	2 mg/l	Méthylisobutylcétone	Urine	*
acetone (CAS 67-64-1)	100 mg/l	Acétone	Urine	*
methanol (CAS 67-56-1)	15 mg/l	Méthanol	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
2-butanone (CAS 78-93-3)	5 mg/l	2-Butanon	Urine	*
4-Methyl-2-pentanone (CAS 108-10-1)	3,5 mg/l	4-Methylpentan-2-on	Urine	*
acetone (CAS 67-64-1)	80 mg/l	Aceton	Urine	*
isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*
methanol (CAS 67-56-1)	30 mg/l	Methanol	Urine	*
Toluene (CAS 108-88-3)	600 µg/l	Toluol	Blood	*
	1,5 mg/l	o-Kresol (nach Hydrolyse)	Urine	*

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

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

Components	Value	Determinant	Specimen	Sampling Time
Toluene (CAS 108-88-3)	1 mg/g	o-crezol	Creatinine in urine	*

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
	1,05 µmol/mmol	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-Methyl-2-pentanone (CAS 108-10-1)	2,36 mg/g	Methyl isobutyl ketone	Creatinine in urine	*
	3,5 mg/l	Methyl isobutyl ketone	Urine	*
acetone (CAS 67-64-1)	53,36 mg/g	Acetone	Creatinine in urine	*
	80 mg/l	Acetone	Urine	*
methanol (CAS 67-56-1)	20 mg/g	Methanol	Creatinine in urine	*
	30 mg/l	Methanol	Urine	*
Toluene (CAS 108-88-3)	600 µg/l	Toluene	Blood	*
	1600 mg/g	Hippuric acid	Creatinine in urine	*
	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. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4

Components	Value	Determinant	Specimen	Sampling Time
2-butanone (CAS 78-93-3)	2 mg/l	Metiletilcetona	Urine	*
4-Methyl-2-pentanone (CAS 108-10-1)	1 mg/l	Metilisobutilcetona	Urine	*
acetone (CAS 67-64-1)	50 mg/l	Acetona	Urine	*
isopropanol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*
methanol (CAS 67-56-1)	15 mg/l	Metanol	Urine	*
Toluene (CAS 108-88-3)	1,6 g/g	Ácido hipúrico	Creatinine in urine	*
	0,5 mg/l	o-Cresol	Urine	*
	0,05 mg/l	Tolueno	Blood	*

* - 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
2-butanone (CAS 78-93-3)	5 mg/l	2-Butanon (MEK)	Urine	*
4-Methyl-2-pentanone (CAS 108-10-1)	2 mg/l	4-Methylpentan-2-on	Urine	*
acetone (CAS 67-64-1)	80 mg/l	Aceton	Urine	*
isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Blood	*
	25 mg/l	Aceton	Urine	*
methanol (CAS 67-56-1)	30 mg/l	Methanol	Urine	*
Toluene (CAS 108-88-3)	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. EH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen	Sampling Time
2-butanone (CAS 78-93-3)	70 umol/l	Butan-2-one	Urine	*
4-Methyl-2-pentanone (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 level (DNEL) Not available.

Predicted no effect concentrations (PNECs) Not available.

Exposure guidelines

EU Exposure Limit Values: Skin designation

methanol (CAS 67-56-1)

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 (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

General information

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

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

- Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

- Other

Wear appropriate chemical resistant clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

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

Environmental exposure controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.

Color

Clear colorless or nearly colorless

Odor

Solvent.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

Not available.

Initial boiling point and boiling range

132,89 °F (56,05 °C) estimated

Flash point

-4,0 °F (-20,0 °C) estimated

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

1,4 % estimated

Flammability limit - upper (%)

36 % estimated

Vapor pressure

140,82 hPa estimated

Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Not available.

Solubility (other)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	464 °F (240 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

9.2. Other information

Density	6,82 lbs/gal
Percent volatile	100 %
Specific gravity	0,82
VOC	4,5 lbs/gal Material 6,8 lbs/gal Regulatory 543 g/l Material 811 g/l Regulatory

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. Nitrates. Ammonia. Amines. Isocyanates. Caustics. Chlorine.
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 damage to organs by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Harmful in contact with skin.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.

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

11.1. Information on toxicological effects

Acute toxicity Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. Narcotic effects.

Components	Species	Test Results
1-methylethyl acetate (CAS 108-21-4)		
Acute		
Oral		
LD50	Rabbit	6,95 g/kg
	Rat	3 g/kg
2-butanone (CAS 78-93-3)		
Acute		
Dermal		
LD50	Rabbit	> 8000 mg/kg
Inhalation		
LC50	Mouse	11000 ppm, 45 Minutes
	Rat	11700 ppm, 4 Hours
Oral		
LD50	Mouse	670 mg/kg
	Rat	2300 - 3500 mg/kg

Components	Species	Test Results
4-Methyl-2-pentanone (CAS 108-10-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 16000 mg/kg
Inhalation		
LC50	Rat	8,2 mg/l, 4 Hours
Oral		
LD50	Rat	2080 mg/kg
acetone (CAS 67-64-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	20000 mg/kg 20 ml/kg
Inhalation		
LC50	Rat	76 mg/l, 4 Hours 50,1 mg/l, 8 Hours
Oral		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
Ethanol (CAS 64-17-5)		
<u>Acute</u>		
Inhalation		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 ppm, 10 Hours
Oral		
LD50	Guinea pig	5,6 g/kg
	Mouse	3450 mg/kg
	Rat	6,2 g/kg
isopropanol (CAS 67-63-0)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	12800 mg/kg
Oral		
LD50	Mouse	3600 mg/kg
	Rabbit	5,03 g/kg
	Rat	4,7 g/kg
methanol (CAS 67-56-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	15800 mg/kg
Inhalation		
LC50	Rat	64000 ppm, 4 Hours 87,5 mg/l, 6 Hours
Oral		
LD50	Monkey	2 g/kg
	Mouse	7300 mg/kg
	Rabbit	14,4 g/kg
	Rat	5628 mg/kg

Components	Species	Test Results
n-butyl acetate (CAS 123-86-4)		
Acute		
Inhalation		
LC50	Wistar rat	160 mg/l, 4 Hours
Oral		
LD50	Rat	14000 mg/kg
Toluene (CAS 108-88-3)		
Acute		
Dermal		
LD50	Rabbit	12124 mg/kg 14,1 ml/kg
Inhalation		
LC50	Mouse	5320 ppm, 8 Hours 400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours
Oral		
LD50	Rat	2,6 g/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible.

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.

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

4-Methyl-2-pentanone (CAS 108-10-1)

2B Possibly carcinogenic to humans.

Toluene (CAS 108-88-3)

3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure Causes damage to organs. May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance information No information available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects.

Components	Species	Test Results
2-butanone (CAS 78-93-3)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 4025 - 6440 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus) > 400 mg/l, 96 hours
4-Methyl-2-pentanone (CAS 108-10-1)		
Aquatic		
Fish	LC50	Fathead minnow (Pimephales promelas) 492 - 593 mg/l, 96 hours

Components	Species		Test Results
acetone (CAS 67-64-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	21,6 - 23,9 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Ethanol (CAS 64-17-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7,7 - 11,2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
isopropanol (CAS 67-63-0)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
methanol (CAS 67-56-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
n-butyl acetate (CAS 123-86-4)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	17 - 19 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5,46 - 9,83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8,11 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

12.2. Persistence and degradability No data is available on the degradability of this product.

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

1-methylethyl acetate	1,02
2-butanone	0,29
4-Methyl-2-pentanone	1,31
acetone	-0,24
Ethanol	-0,31
isopropanol	0,05
methanol	-0,77
n-butyl acetate	1,78
Toluene	2,73

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment Not available.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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 UN1263
14.2. UN proper shipping name Paint, Paint Related Material
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 UN1263
14.2. UN proper shipping name Paint, Paint Related Material
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 UN1263
14.2. UN proper shipping name Paint, Paint Related Material
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 UN1263
14.2. UN proper shipping name Paint, Paint Related Material
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.
 Cargo aircraft only Allowed.

IMDG

14.1. UN number UN1263
14.2. UN proper shipping name Paint, Paint Related Material

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. Transport in bulk** Not established.**according to Annex II of MARPOL 73/78 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, as amended**

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

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

Not listed.

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

Not listed.

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

Not listed.

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**

1-methylethyl acetate (CAS 108-21-4)

2-butanone (CAS 78-93-3)

4-Methyl-2-pentanone (CAS 108-10-1)

acetone (CAS 67-64-1)

Ethanol (CAS 64-17-5)

isopropanol (CAS 67-63-0)

methanol (CAS 67-56-1)

Toluene (CAS 108-88-3)

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

Not listed.

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

Toluene (CAS 108-88-3)

Other EU regulations

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

1-methylethyl acetate (CAS 108-21-4)

2-butanone (CAS 78-93-3)

4-Methyl-2-pentanone (CAS 108-10-1)

acetone (CAS 67-64-1)

Ethanol (CAS 64-17-5)

isopropanol (CAS 67-63-0)

methanol (CAS 67-56-1)

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

Toluene (CAS 108-88-3)

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

1-methylethyl acetate (CAS 108-21-4)

2-butanone (CAS 78-93-3)

4-Methyl-2-pentanone (CAS 108-10-1)

acetone (CAS 67-64-1)

Ethanol (CAS 64-17-5)

isopropanol (CAS 67-63-0)

methanol (CAS 67-56-1)

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

Toluene (CAS 108-88-3)

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

methanol (CAS 67-56-1)

Toluene (CAS 108-88-3)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

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. Follow national regulation for work with chemical agents.

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.

R20 Harmful by inhalation.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R36 Irritating to eyes.

R36/37 Irritating to eyes and respiratory system.

R38 Irritating to skin.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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

R63 Possible risk of harm to the unborn child.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapors may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Revision information

None.

Training information

Follow training instructions when handling this material.

Disclaimer

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