

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

1.1. Product identifier

Trade name or designation of the mixture ACRYLIC LACQUER PRIMER GREY

Registration number -

Synonyms None.

Product code RSP-100-G

Issue date 24-April-2015

Version number 01

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

Identified uses Automotive Refinish Primer

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
United States

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Classification F+;R12, Repr. Cat. 3;R63, Xi;R36

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 1	H224 - Extremely flammable liquid and vapour.
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Health hazards

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 (the unborn child)	Category 2	H361d - Suspected of damaging 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.

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

Extremely flammable.

Health hazards

Irritating to eyes. Possible risk of harm to the unborn child. 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. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

2.2. Label elements

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

Contains:

2-Butanone, 4-Methyl-2-pentanone, acetone, Carbon Black, Ethyl benzene, Isopropanol, Titanium dioxide, Toluene

Hazard pictograms



Signal word

Danger

Hazard statements

H224	Extremely flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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 the mist or vapour.
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.

Response

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.
P312	Call a POISON CENTER/doctor if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
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

69,7 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

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
4-Methyl-2-pentanone	10 - < 20	108-10-1 203-550-1	-	606-004-00-4	#
Classification:	DSD: F;R11, Xn;R20, Xi;R36/37, R66				
	CLP: -				
acetone	10 - < 20	67-64-1 200-662-2	-	606-001-00-8	#
Classification:	DSD: F;R11, Xi;R36, R66-67				
	CLP: -				
Toluene	10 - < 20	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				
2-Butanone	3 - < 5	78-93-3 201-159-0	-	606-002-00-3	#
Classification:	DSD: F;R11, Xi;R36, R66-67				
	CLP: -				
Isopropanol	3 - < 5	67-63-0 200-661-7	-	603-117-00-0	
Classification:	DSD: F;R11, Xi;R36, R67				
	CLP: -				
Titanium dioxide	3 - < 5	13463-67-7 236-675-5	-	-	
Classification:	DSD: -				
	CLP: Carc. 2;H351				
Xylene	3 - < 5	1330-20-7 215-535-7	-	601-022-00-9	#
Classification:	DSD: R10, Xn;R20/21, Xi;R38				C
	CLP: Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332, Aquatic Chronic 2;H411				C
Ethyl benzene	< 1	100-41-4 202-849-4	-	601-023-00-4	#
Classification:	DSD: F;R11, Xn;R20				
	CLP: Flam. Liq. 2;H225, Asp. Tox. 1;H304, Acute Tox. 4;H332, Carc. 2;H351, STOT RE 2;H373, Aquatic Chronic 2;H411				
Carbon Black	< 0,2	1333-86-4 215-609-9	-	-	
Classification:	DSD: -				
	CLP: -				
Other components below reportable levels 40 - < 50					

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. Call a POISON CENTRE 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 Rinse mouth. Get medical attention if symptoms occur.

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

SECTION 5: Firefighting measures

General fire hazards Extremely flammable liquid and vapour.

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 Vapours may form explosive mixtures with air. Vapours 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 vapour. 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.

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. 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 or vapour. 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. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. 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	Form
2-Butanone (CAS 78-93-3)	MAK	295 mg/m3 100 ppm	
	STEL	590 mg/m3 200 ppm	
4-Methyl-2-pentanone (CAS 108-10-1)	MAK	83 mg/m3 20 ppm	
	STEL	208 mg/m3 50 ppm	
acetone (CAS 67-64-1)	MAK	1200 mg/m3 500 ppm	
	STEL	4800 mg/m3 2000 ppm	
Ethyl benzene (CAS 100-41-4)	Ceiling	880 mg/m3	
	MAK	200 ppm 440 mg/m3	
Isopropanol (CAS 67-63-0)	MAK	100 ppm 500 mg/m3	
	STEL	200 ppm 2000 mg/m3	
Talc (CAS 14807-96-6)	MAK	800 ppm 2 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	MAK	5 mg/m3	Respirable dust.
Toluene (CAS 108-88-3)	STEL	10 mg/m3	Respirable dust.
	MAK	190 mg/m3 50 ppm	

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

Components	Type	Value	Form
Xylene (CAS 1330-20-7)	STEL	380 mg/m3	
		100 ppm	
	MAK	221 mg/m3	
		50 ppm	
	STEL	442 mg/m3	
		100 ppm	

Belgium. Exposure Limit Values.

Components	Type	Value	Form
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
4-Methyl-2-pentanone (CAS 108-10-1)		200 ppm	
	STEL	208 mg/m3	
		50 ppm	
acetone (CAS 67-64-1)	TWA	83 mg/m3	
		20 ppm	
	STEL	2420 mg/m3	
Carbon Black (CAS 1333-86-4)		1000 ppm	
	TWA	1210 mg/m3	
		500 ppm	
Ethyl benzene (CAS 100-41-4)		3,5 mg/m3	
	STEL	551 mg/m3	
		125 ppm	
Isopropanol (CAS 67-63-0)	TWA	442 mg/m3	
		100 ppm	
	STEL	1000 mg/m3	
Magnesium carbonate (CAS 546-93-0)		400 ppm	
	TWA	500 mg/m3	
		200 ppm	
Talc (CAS 14807-96-6)		10 mg/m3	
	TWA		
Titanium dioxide (CAS 13463-67-7)		2 mg/m3	
	TWA	10 mg/m3	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	77 mg/m3	
Xylene (CAS 1330-20-7)		20 ppm	
	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

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

Components	Type	Value	Form
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	
	TWA	600 mg/m3	
ceramic material (CAS 66402-68-4)	TWA	6 mg/m3	Inhalable fraction.
		3 mg/m3	Respirable fraction.
Ethyl benzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	435 mg/m3	
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3	

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

Components	Type	Value	Form
Magnesium carbonate (CAS 546-93-0)	TWA	980 mg/m3	
	TWA	1 fibers/cm3	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	8 mg/m3	Inhalable fraction.
		3 mg/m3	Respirable fraction.
		1 fibers/cm3	Respirable fraction.
		6 mg/m3	Inhalable fraction.
		3 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Respirable dust.
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
Xylene (CAS 1330-20-7)	STEL	50 ppm	
		442 mg/m3	
		100 ppm	
		221 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	Form
2-Butanone (CAS 78-93-3)	MAC	600 mg/m3	
		200 ppm	
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	900 mg/m3	
		300 ppm	
	MAC	83 mg/m3	
acetone (CAS 67-64-1)	MAC	20 ppm	
		208 mg/m3	
		50 ppm	
		1210 mg/m3	
Carbon Black (CAS 1333-86-4)	MAC	500 ppm	
		3620 mg/m3	
		1500 ppm	
Ethyl benzene (CAS 100-41-4)	MAC	3,5 mg/m3	
	STEL	7 mg/m3	
Isopropanol (CAS 67-63-0)	MAC	442 mg/m3	
		100 ppm	
		884 mg/m3	
		200 ppm	
		999 mg/m3	
Magnesium carbonate (CAS 546-93-0)	MAC	400 ppm	
		1250 mg/m3	
		500 ppm	
Talc (CAS 14807-96-6)	MAC	4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		1 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	STEL	4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Toluene (CAS 108-88-3)	MAC	192 mg/m3	
		50 ppm	
		384 mg/m3	
Xylene (CAS 1330-20-7)	MAC	100 ppm	
		221 mg/m3	
		50 ppm	
		442 mg/m3	
	STEL	100 ppm	

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

Components	Type	Value
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m3
Isopropanol (CAS 67-63-0)	TWA	980 mg/m3 400 ppm
Talc (CAS 14807-96-6)	TWA	706 part/cm3
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
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	
Carbon Black (CAS 1333-86-4)	TWA	2 mg/m3	Dust.
Ethyl benzene (CAS 100-41-4)	Ceiling	500 mg/m3	
	TWA	200 mg/m3	
Isopropanol (CAS 67-63-0)	Ceiling	1000 mg/m3	
	TWA	500 mg/m3	
Talc (CAS 14807-96-6)	TWA	10 mg/m3	Total dust.
		10 mg/m3	Respirable dust.
Toluene (CAS 108-88-3)	Ceiling	500 mg/m3	
	TWA	200 mg/m3	
Xylene (CAS 1330-20-7)	Ceiling	400 mg/m3	
	TWA	200 mg/m3	

Denmark. Exposure Limit Values

Components	Type	Value
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
Carbon Black (CAS 1333-86-4)	TLV	3,5 mg/m3
Ethyl benzene (CAS 100-41-4)	TLV	217 mg/m3
		50 ppm
Isopropanol (CAS 67-63-0)	TLV	490 mg/m3 200 ppm
Titanium dioxide (CAS 13463-67-7)	TLV	6 mg/m3
Toluene (CAS 108-88-3)	TLV	94 mg/m3 25 ppm
Xylene (CAS 1330-20-7)	TLV	109 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
	TWA	600 mg/m3 200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3

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

Components	Type	Value
acetone (CAS 67-64-1)	TWA	20 ppm
		1210 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	500 ppm
		884 mg/m3
Isopropanol (CAS 67-63-0)	TWA	200 ppm
		442 mg/m3
	STEL	100 ppm
		600 mg/m3
Titanium dioxide (CAS 13463-67-7)	TWA	250 ppm
		350 mg/m3
	STEL	150 ppm
		5 mg/m3
Toluene (CAS 108-88-3)	TWA	384 mg/m3
		100 ppm
	STEL	192 mg/m3
		50 ppm
Xylene (CAS 1330-20-7)	TWA	450 mg/m3
		100 ppm
	STEL	200 mg/m3
		50 ppm

Finland. Workplace Exposure Limits

Components	Type	Value	Form
2-Butanone (CAS 78-93-3)	STEL	300 mg/m3	
		100 ppm	
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	210 mg/m3	
		50 ppm	
acetone (CAS 67-64-1)	TWA	80 mg/m3	
		20 ppm	
	STEL	1500 mg/m3	
		630 ppm	
Carbon Black (CAS 1333-86-4)	TWA	1200 mg/m3	
		500 ppm	
Ethyl benzene (CAS 100-41-4)	STEL	7 mg/m3	
		3,5 mg/m3	
Isopropanol (CAS 67-63-0)	TWA	880 mg/m3	
		200 ppm	
	STEL	220 mg/m3	
		50 ppm	
Magnesium carbonate (CAS 546-93-0)	TWA	620 mg/m3	
		250 ppm	
Talc (CAS 14807-96-6)	STEL	500 mg/m3	
		200 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Dust.
		10 mg/m3	
Toluene (CAS 108-88-3)	TWA	2 ppm	Inhalable dust.
		1 ppm	Respirable.
	STEL	380 mg/m3	Dust.
		100 ppm	
Xylene (CAS 1330-20-7)	TWA	81 mg/m3	
		25 ppm	
	STEL	440 mg/m3	
		100 ppm	
	TWA	220 mg/m3	
		50 ppm	

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

Components	Type	Value
2-Butanone (CAS 78-93-3)	VLE	900 mg/m3 300 ppm
	VME	600 mg/m3 200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	VLE	208 mg/m3 50 ppm
	VME	83 mg/m3 20 ppm
acetone (CAS 67-64-1)	VLE	2420 mg/m3 1000 ppm
	VME	1210 mg/m3 500 ppm
Carbon Black (CAS 1333-86-4)	VME	3,5 mg/m3
Ethyl benzene (CAS 100-41-4)	VLE	442 mg/m3
	VME	100 ppm 88,4 mg/m3 20 ppm
Isopropanol (CAS 67-63-0)	VLE	980 mg/m3 400 ppm
	VME	10 mg/m3
Magnesium carbonate (CAS 546-93-0)	VME	10 mg/m3
Titanium dioxide (CAS 13463-67-7)	VME	10 mg/m3
Toluene (CAS 108-88-3)	VLE	384 mg/m3 100 ppm
	VME	76,8 mg/m3 20 ppm
Xylene (CAS 1330-20-7)	VLE	442 mg/m3 100 ppm
	VME	221 mg/m3 50 ppm

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

Components	Type	Value
2-Butanone (CAS 78-93-3)	TWA	600 mg/m3 200 ppm
	TWA	83 mg/m3 20 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	TWA	1200 mg/m3 500 ppm
	TWA	88 mg/m3 20 ppm
acetone (CAS 67-64-1)	TWA	500 mg/m3 200 ppm
	TWA	190 mg/m3 50 ppm
Ethyl benzene (CAS 100-41-4)	TWA	440 mg/m3 100 ppm
	TWA	440 mg/m3 100 ppm
Isopropanol (CAS 67-63-0)	TWA	440 mg/m3 100 ppm
Toluene (CAS 108-88-3)	TWA	440 mg/m3 100 ppm
Xylene (CAS 1330-20-7)	TWA	440 mg/m3 100 ppm

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

Components	Type	Value	Form
2-Butanone (CAS 78-93-3)	AGW	600 mg/m3 200 ppm	
	AGW	83 mg/m3 20 ppm	
4-Methyl-2-pentanone (CAS 108-10-1)	AGW	1200 mg/m3 500 ppm	
	AGW	88 mg/m3 20 ppm	
acetone (CAS 67-64-1)	AGW	500 mg/m3 200 ppm	
	AGW	190 mg/m3 50 ppm	

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

Components	Type	Value	Form
Ethyl benzene (CAS 100-41-4)	AGW	88 mg/m3	
Isopropanol (CAS 67-63-0)	AGW	20 ppm 500 mg/m3	
Talc (CAS 14807-96-6)	AGW	200 ppm 10 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	AGW	1,25 mg/m3 10 mg/m3	Respirable fraction. Inhalable fraction.
Toluene (CAS 108-88-3)	AGW	1,25 mg/m3 190 mg/m3	Respirable fraction.
Xylene (CAS 1330-20-7)	AGW	50 ppm 440 mg/m3 100 ppm	

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

Components	Type	Value	Form
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	410 mg/m3	
	TWA	100 ppm 410 mg/m3	
acetone (CAS 67-64-1)	STEL	100 ppm 3560 mg/m3	
	TWA	1780 mg/m3	
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	125 ppm 435 mg/m3	
Isopropanol (CAS 67-63-0)	STEL	100 ppm 1225 mg/m3	
	TWA	500 ppm 980 mg/m3	
Talc (CAS 14807-96-6)	TWA	400 ppm 2 mg/m3	Respirable.
		10 mg/m3	Inhalable
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Inhalable
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
	TWA	100 ppm 192 mg/m3	
Xylene (CAS 1330-20-7)	STEL	50 ppm 650 mg/m3	
	TWA	150 ppm 435 mg/m3 100 ppm	

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form
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	
	TWA	83 mg/m3	
acetone (CAS 67-64-1)	STEL	2420 mg/m3	
	TWA	1210 mg/m3	

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3	Respirable.
Isopropanol (CAS 67-63-0)	TWA	442 mg/m3	
	STEL	2000 mg/m3	
Talc (CAS 14807-96-6)	TWA	500 mg/m3	
	TWA	2 mg/m3	
Toluene (CAS 108-88-3)	STEL	380 mg/m3	
	TWA	190 mg/m3	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
	TWA	221 mg/m3	

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

Components	Type	Value
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3
	TWA	300 ppm
		145 mg/m3
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	50 ppm
		208 mg/m3
	TWA	50 ppm
acetone (CAS 67-64-1)	TWA	83 mg/m3
		20 ppm
	TWA	600 mg/m3
Carbon Black (CAS 1333-86-4)	TWA	250 ppm
		3,5 mg/m3
	STEL	884 mg/m3
Ethyl benzene (CAS 100-41-4)	TWA	200 ppm
		200 mg/m3
	TWA	50 ppm
Isopropanol (CAS 67-63-0)	TWA	490 mg/m3
		200 ppm
	TWA	6 mg/m3
Titanium dioxide (CAS 13463-67-7)	STEL	188 mg/m3
		50 ppm
	TWA	94 mg/m3
Toluene (CAS 108-88-3)	STEL	25 ppm
		442 mg/m3
	TWA	100 ppm
Xylene (CAS 1330-20-7)	STEL	109 mg/m3
		25 ppm
	TWA	442 mg/m3

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
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	
		208 mg/m3	
	TWA	50 ppm	
acetone (CAS 67-64-1)	TWA	83 mg/m3	
		20 ppm	
	TWA	1210 mg/m3	
Carbon Black (CAS 1333-86-4)	STEL	500 ppm	
		7 mg/m3	
	TWA	3,5 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	

**Ireland. Occupational Exposure Limits
Components**

Type	Value	Form
Isopropanol (CAS 67-63-0)	100 ppm 400 ppm	
Talc (CAS 14807-96-6)	200 ppm 10 mg/m3	Total inhalable dust.
Titanium dioxide (CAS 13463-67-7)	0,8 mg/m3 4 mg/m3	Respirable dust. Respirable dust.
Toluene (CAS 108-88-3)	10 mg/m3 384 mg/m3	Total inhalable dust.
	100 ppm 192 mg/m3	
Xylene (CAS 1330-20-7)	50 ppm 442 mg/m3	
	100 ppm 221 mg/m3	
	50 ppm	

**Italy. Occupational Exposure Limits
Components**

Type	Value	Form
2-Butanone (CAS 78-93-3)	900 mg/m3 300 ppm	
	600 mg/m3 200 ppm	
4-Methyl-2-pentanone (CAS 108-10-1)	208 mg/m3	
	50 ppm	
	83 mg/m3	
acetone (CAS 67-64-1)	20 ppm 1210 mg/m3	
	500 ppm	
Carbon Black (CAS 1333-86-4)	3 mg/m3	Inhalable fraction.
Ethyl benzene (CAS 100-41-4)	884 mg/m3	
	200 ppm	
	442 mg/m3	
Isopropanol (CAS 67-63-0)	100 ppm 400 ppm	
	200 ppm	
Talc (CAS 14807-96-6)	2 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	10 mg/m3	
Toluene (CAS 108-88-3)	192 mg/m3 50 ppm	
Xylene (CAS 1330-20-7)	442 mg/m3 100 ppm	
	221 mg/m3 50 ppm	

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

Type	Value
2-Butanone (CAS 78-93-3)	900 mg/m3 300 ppm
	200 mg/m3 67 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	208 mg/m3
	50 ppm
	83 mg/m3
	20 ppm
acetone (CAS 67-64-1)	1210 mg/m3 500 ppm
Ethyl benzene (CAS 100-41-4)	884 mg/m3

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

Components	Type	Value
Isopropanol (CAS 67-63-0)	TWA	200 ppm
		442 mg/m3
	STEL	100 ppm
		600 mg/m3
Titanium dioxide (CAS 13463-67-7)	TWA	350 mg/m3
	TWA	10 mg/m3
Toluene (CAS 108-88-3)	STEL	150 mg/m3
		40 ppm
	TWA	50 mg/m3
		14 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

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

Components	Type	Value	Form
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3	Inhalable fraction. Respirable fraction.
		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	
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
Isopropanol (CAS 67-63-0)	STEL	600 mg/m3	
		250 ppm	
	TWA	350 mg/m3	
		150 ppm	
Magnesium carbonate (CAS 546-93-0)	TWA	10 mg/m3	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	
		1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
		50 ppm	
Xylene (CAS 1330-20-7)	STEL	450 mg/m3	
		100 ppm	
	TWA	200 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

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

Components	Type	Value
	TWA	83 mg/m3 20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3 200 ppm
	TWA	442 mg/m3 100 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 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
	TWA	83 mg/m3 20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3 200 ppm
	TWA	442 mg/m3 100 ppm
Toluene (CAS 108-88-3)	STEL	384 mg/m3 100 ppm
	TWA	192 mg/m3 50 ppm
Xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm
	TWA	221 mg/m3 50 ppm

Netherlands. OELs (binding)

Components	Type	Value	Form
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	590 mg/m3	
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3	
	TWA	104 mg/m3	
acetone (CAS 67-64-1)	STEL	2420 mg/m3	
	TWA	1210 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	430 mg/m3	
	TWA	215 mg/m3	
Talc (CAS 14807-96-6)	TWA	0,25 mg/m3	Respirable dust.
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
	TWA	150 mg/m3	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3	
	TWA	210 mg/m3	

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
2-Butanone (CAS 78-93-3)	TLV	220 mg/m3 75 ppm	
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3	
	TLV	50 ppm 83 mg/m3 20 ppm	
acetone (CAS 67-64-1)	TLV	295 mg/m3 125 ppm	
Carbon Black (CAS 1333-86-4)	TLV	3,5 mg/m3	
Ethyl benzene (CAS 100-41-4)	TLV	20 mg/m3	
Isopropanol (CAS 67-63-0)	TLV	5 ppm 245 mg/m3 100 ppm	
Talc (CAS 14807-96-6)	TLV	6 mg/m3 2 mg/m3	Total dust. Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TLV	5 mg/m3	
Toluene (CAS 108-88-3)	TLV	94 mg/m3 25 ppm	
Xylene (CAS 1330-20-7)	TLV	108 mg/m3 25 ppm	

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

Components	Type	Value	Form
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	450 mg/m3	
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 mg/m3	
	TWA	83 mg/m3	
acetone (CAS 67-64-1)	STEL	1800 mg/m3	
	TWA	600 mg/m3	
Carbon Black (CAS 1333-86-4)	TWA	4 mg/m3	Total dust.
Ethyl benzene (CAS 100-41-4)	STEL	400 mg/m3	
	TWA	200 mg/m3	
Isopropanol (CAS 67-63-0)	STEL	1200 mg/m3	
	TWA	900 mg/m3	
Talc (CAS 14807-96-6)	TWA	4 mg/m3 1 mg/m3	Total dust. Respirable dust.
Titanium dioxide (CAS 13463-67-7)	STEL	30 mg/m3	
	TWA	10 mg/m3	Total dust.
Toluene (CAS 108-88-3)	STEL	200 mg/m3	
	TWA	100 mg/m3	
Xylene (CAS 1330-20-7)	TWA	100 mg/m3	

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/m3 300 ppm
	TWA	600 mg/m3 200 ppm
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	50 ppm 83 mg/m3 20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm

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

Components	Type	Value
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
Toluene (CAS 108-88-3)		100 ppm
	STEL	384 mg/m3
	TWA	192 mg/m3
Xylene (CAS 1330-20-7)		50 ppm
	STEL	442 mg/m3
	TWA	221 mg/m3

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

Components	Type	Value	Form
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	
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m3	Fume.
Ethyl benzene (CAS 100-41-4)	STEL	125 ppm	
	TWA	100 ppm	
Isopropanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Toluene (CAS 108-88-3)	TWA	50 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

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

Components	Type	Value	Form
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
4-Methyl-2-pentanone (CAS 108-10-1)		200 ppm	
	STEL	208 mg/m3	
	TWA	50 ppm	
acetone (CAS 67-64-1)		200 mg/m3	
		20 ppm	
	TWA	1210 mg/m3	
Ethyl benzene (CAS 100-41-4)		500 ppm	
	STEL	884 mg/m3	
	TWA	200 ppm	
Isopropanol (CAS 67-63-0)		442 mg/m3	
		100 ppm	
	STEL	500 mg/m3	
Talc (CAS 14807-96-6)		203 ppm	
		81 ppm	
	TWA	2 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	STEL	15 mg/m3	
	TWA	10 mg/m3	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	

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

Components	Type	Value	Form
Xylene (CAS 1330-20-7)	TWA	100 ppm	
		192 mg/m3	
	STEL	50 ppm	
		442 mg/m3	
	TWA	100 ppm	
		221 mg/m3	
		50 ppm	

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

Components	Type	Value	Form
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 ppm	
		166 mg/m3	
	TWA	40 ppm	
acetone (CAS 67-64-1)	TWA	83 mg/m3	
		20 ppm	
	TWA	1210 mg/m3	
Carbon Black (CAS 1333-86-4)	TWA	500 ppm	
		2 mg/m3	
	TWA	2 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
Isopropanol (CAS 67-63-0)	STEL	100 ppm	
		1000 mg/m3	
	TWA	400 ppm	
Magnesium carbonate (CAS 546-93-0)	TWA	500 mg/m3	
		200 ppm	
	TWA	10 mg/m3	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
		2 mg/m3	Respirable fraction.
	TWA	10 mg/m3	Total
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	
		5 mg/m3	
	TWA	5 mg/m3	
Toluene (CAS 108-88-3)	STEL	384 mg/m3	
		100 ppm	
	TWA	192 mg/m3	
Xylene (CAS 1330-20-7)	STEL	50 ppm	
		442 mg/m3	
	TWA	100 ppm	
		221 mg/m3	
		50 ppm	

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

Components	Type	Value	Form
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	1210 mg/m3	
		500 ppm	
Ethyl benzene (CAS 100-41-4)	TWA	442 mg/m3	
		100 ppm	
Isopropanol (CAS 67-63-0)	TWA	500 mg/m3	
		200 ppm	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.

**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	Form
Toluene (CAS 108-88-3)	TWA	192 mg/m3 50 ppm	
Xylene (CAS 1330-20-7)	TWA	221 mg/m3 50 ppm	

Spain. Occupational Exposure Limits

Components	Type	Value	Form
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	
	TWA	50 ppm 83 mg/m3	
acetone (CAS 67-64-1)	TWA	20 ppm 1210 mg/m3	
Carbon Black (CAS 1333-86-4)	TWA	500 ppm 3,5 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	200 ppm 441 mg/m3	
Isopropanol (CAS 67-63-0)	STEL	100 ppm 1000 mg/m3	
	TWA	400 ppm 500 mg/m3	
Talc (CAS 14807-96-6)	TWA	200 ppm 2 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Toluene (CAS 108-88-3)	STEL	384 mg/m3 100 ppm	
	TWA	192 mg/m3 50 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm	
	TWA	221 mg/m3 50 ppm	

Sweden. Occupational Exposure Limit Values

Components	Type	Value	Form
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	
	TWA	50 ppm 100 mg/m3	
acetone (CAS 67-64-1)	STEL	25 ppm 1200 mg/m3	
	TWA	500 ppm 600 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	250 ppm 450 mg/m3	
	TWA	100 ppm 200 mg/m3	
Isopropanol (CAS 67-63-0)	STEL	50 ppm 600 mg/m3	
		250 ppm	

Sweden. Occupational Exposure Limit Values

Components	Type	Value	Form
	TWA	350 mg/m3 150 ppm	
Talc (CAS 14807-96-6)	TWA	2 mg/m3 1 mg/m3	Total dust. Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Total dust.
Toluene (CAS 108-88-3)	STEL	384 mg/m3 100 ppm	
	TWA	192 mg/m3 50 ppm	
Xylene (CAS 1330-20-7)	STEL	442 mg/m3 100 ppm	
	TWA	221 mg/m3 50 ppm	

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
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	
	TWA	40 ppm 82 mg/m3	
acetone (CAS 67-64-1)	STEL	20 ppm 2400 mg/m3 1000 ppm	
	TWA	1200 mg/m3 500 ppm	
Ethyl benzene (CAS 100-41-4)	STEL	220 mg/m3	
	TWA	50 ppm 220 mg/m3 50 ppm	
Isopropanol (CAS 67-63-0)	STEL	1000 mg/m3 400 ppm	
	TWA	500 mg/m3 200 ppm	
Magnesium carbonate (CAS 546-93-0)	TWA	3 mg/m3	Respirable dust.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable dust.
Toluene (CAS 108-88-3)	STEL	760 mg/m3 200 ppm	
	TWA	190 mg/m3 50 ppm	
Xylene (CAS 1330-20-7)	STEL	870 mg/m3 200 ppm	
	TWA	435 mg/m3 100 ppm	

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
2-Butanone (CAS 78-93-3)	STEL	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	

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
acetone (CAS 67-64-1)	STEL	3620 mg/m3 1500 ppm	
	TWA	1210 mg/m3 500 ppm	
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	552 mg/m3	
	TWA	125 ppm 441 mg/m3 100 ppm	
Isopropanol (CAS 67-63-0)	STEL	1250 mg/m3 500 ppm	
	TWA	999 mg/m3 400 ppm	
Magnesium carbonate (CAS 546-93-0)	TWA	4 mg/m3	Respirable dust.
Talc (CAS 14807-96-6)	TWA	10 mg/m3 1 mg/m3	Inhalable dust. Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable.
		10 mg/m3	Inhalable
Toluene (CAS 108-88-3)	STEL	384 mg/m3 100 ppm	
	TWA	191 mg/m3 50 ppm	
Xylene (CAS 1330-20-7)	STEL	441 mg/m3 100 ppm	
	TWA	220 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
	TWA	50 ppm 83 mg/m3 20 ppm
acetone (CAS 67-64-1)	TWA	1210 mg/m3 500 ppm
	STEL	884 mg/m3
Ethyl benzene (CAS 100-41-4)	TWA	200 ppm 442 mg/m3 100 ppm
	STEL	384 mg/m3 100 ppm
Toluene (CAS 108-88-3)	TWA	192 mg/m3 50 ppm
	STEL	442 mg/m3 100 ppm
Xylene (CAS 1330-20-7)	TWA	221 mg/m3 50 ppm
	STEL	

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
Ethyl benzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*
	1500 mg/g	Mandelic acid	Creatinine in urine	*
Toluene (CAS 108-88-3)	1000 µmol/mmol	Hippuric acid	Creatinine in urine	*
	1600 mg/g	Hippuric acid	Creatinine in urine	*
Xylene (CAS 1330-20-7)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*

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

Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV) , Social Affairs and Ministry of Health

Components	Value	Determinant	Specimen	Sampling time
Ethyl benzene (CAS 100-41-4)	5,2 mmol/l	Mandelic acid	Urine	*
Toluene (CAS 108-88-3)	500 nmol/l	Toluene concentration	Blood	*
Xylene (CAS 1330-20-7)	5 mmol/l	Methylhippuric acids	Urine	*

* - 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	*
Ethyl benzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	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	*
Xylene (CAS 1330-20-7)	1500 mg/g	Acides méthylhippuriques	Creatinine in urine	*

* - 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	*
Ethyl benzene (CAS 100-41-4)	300 mg/l	Mandelsäure plus Phenylglyoxylsäure	Urine	*
Isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Blood	*
	25 mg/l	Aceton	Urine	*
Toluene (CAS 108-88-3)	600 µg/l	Toluol	Blood	*
	1,5 mg/l	o-Kresol (nach Hydrolyse)	Urine	*
Xylene (CAS 1330-20-7)	2000 mg/l	Methylhippur-(Tolur-) säure (alle Isomere)	Urine	*
	1,5 mg/l	Xylol	Blood	*

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

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

Components	Value	Determinant	Specimen	Sampling time
Ethyl benzene (CAS 100-41-4)	1500 mg/g	mandelic acid	Creatinine in urine	*
	1110 µmol/mmol	mandelic acid	Creatinine in urine	*
Toluene (CAS 108-88-3)	1 mg/g	o-crezol	Creatinine in urine	*
	1,05 µmol/mmol	o-crezol	Creatinine in urine	*
Xylene (CAS 1330-20-7)	1500 mg/g	methyl hippuric acids	Creatinine in urine	*
	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*

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

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

Components	Value	Determinant	Specimen	Sampling time
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	*
Ethyl benzene (CAS 100-41-4)	8,03 mg/g	2-ethylphenol	Creatinine in urine	*
	12 mg/l	2-ethylphenol	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 (Phenol, 2-methyl-)	Creatinine in urine	*
	2401 mg/l	Hippuric acid	Urine	*
	1,5 mg/l	o-cresol (Phenol, 2-methyl-)	Urine	*
Xylene (CAS 1330-20-7)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*
	2000 mg/l	Methylhippuric acids	Urine	*
	1,5 mg/l	Xylene	Blood	*

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

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4

Components	Value	Determinant	Specimen	Sampling time
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	*
Ethyl benzene (CAS 100-41-4)	700 mg/g	Suma del ácido mandélico y el ácido fenilgloxílico	Creatinine in urine	*
Isopropanol (CAS 67-63-0)	40 mg/l	Acetona	Urine	*
Toluene (CAS 108-88-3)	1,6 g/g	Ácido hipúrico	Creatinine in urine	*
	0,5 mg/l	o-cresol (Phenol, 2-methyl-)	Urine	*
	0,05 mg/l	Tolueno	Blood	*
Xylene (CAS 1330-20-7)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*

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

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

Components	Value	Determinant	Specimen	Sampling time
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	*
Ethyl benzene (CAS 100-41-4)	800 mg/l	Mandelsäure plus Phenylglyoxylsäure	Urine	*
Isopropanol (CAS 67-63-0)	25 mg/l	Aceton	Urine	*
	25 mg/l	Aceton	Blood	*
Toluene (CAS 108-88-3)	600 µg/l	Toluol	Blood	*
	2 g/g	Hippursäure	Creatinine in urine	*
	0,5 mg/l	o-Kresol	Urine	*
Xylene (CAS 1330-20-7)	1,5 g/g	Methyl-Hippursäure	Creatinine in urine	*
	1,5 mg/l	Xylol	Blood	*

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

UK. EH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen	Sampling time
2-Butanone (CAS 78-93-3)	70 µmol/l	Butan-2-one	Urine	*
4-Methyl-2-pentanone (CAS 108-10-1)	20 µmol/l	4-Methylpentan-2-one	Urine	*
Xylene (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in 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

Ethyl benzene (CAS 100-41-4)	Can be absorbed through the skin.
Toluene (CAS 108-88-3)	Can be absorbed through the skin.
Xylene (CAS 1330-20-7)	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. Eye wash facilities and emergency shower must be available when handling this product.

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. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Colour	Grey.
Odour	Solvent.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	-94,9 °C (-138,82 °F) estimated
Initial boiling point and boiling range	34 °C (93,2 °F) estimated
Flash point	-20,0 °C (-4,0 °F) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	1,3 % estimated
Flammability limit - upper (%)	12,8 % estimated
Vapour pressure	83,38 hPa estimated
Vapour 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	170 °C (338 °F) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.

9.2. Other information

Density	9,42 lbs/gal
Percent volatile	52,44 %
Specific gravity	1,13
VOC	3,6 lbs/gal Material 4,5 lbs/gal Regulatory 429 g/l Material 542 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	Strong acids. Strong oxidising agents. Halogens.
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.
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Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

11.1. Information on toxicological effects**Acute toxicity** Narcotic effects.

Components	Species	Test results
2-Butanone (CAS 78-93-3)		
<u>Acute</u>		
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
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
Carbon Black (CAS 1333-86-4)		
<u>Acute</u>		
Oral		
LD50	Rat	> 8000 mg/kg
Ethyl benzene (CAS 100-41-4)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	17800 mg/kg
Oral		
LD50	Rat	3500 mg/kg

Components	Species	Test results
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
Toluene (CAS 108-88-3)		
<u>Acute</u>		
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
Xylene (CAS 1330-20-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation		
LC50	Mouse	3907 mg/l, 6 Hours
	Rat	6350 mg/l, 4 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	3523 - 8600 mg/kg
* Estimates for product may be based on additional component data not shown.		
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.	
Skin sensitisation	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	Suspected of causing cancer.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
4-Methyl-2-pentanone (CAS 108-10-1)	2B Possibly carcinogenic to humans.	
Carbon Black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.	
Ethyl benzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.	
Titanium dioxide (CAS 13463-67-7)	2B Possibly carcinogenic to humans.	
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.	
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging the unborn child.	
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
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
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
Ethyl benzene (CAS 100-41-4)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1,37 - 4,4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7,5 - 11 mg/l, 96 hours
Isopropanol (CAS 67-63-0)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1400 mg/l, 96 hours
Titanium dioxide (CAS 13463-67-7)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 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
Xylene (CAS 1330-20-7)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7,711 - 9,591 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)

2-Butanone	0,29
4-Methyl-2-pentanone	1,31
acetone	-0,24
Ethyl benzene	3,15
Isopropanol	0,05
Toluene	2,73
Xylene	3,12 - 3,2

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT Not available.

and vPvB assessment

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 I

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 I

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 I

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	I
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	I
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-E, <u>S</u> -E
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

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.

Authorisations

- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended
Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

2-Butanone (CAS 78-93-3)
4-Methyl-2-pentanone (CAS 108-10-1)
acetone (CAS 67-64-1)
Ethyl benzene (CAS 100-41-4)
Isopropanol (CAS 67-63-0)
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

2-Butanone (CAS 78-93-3)
4-Methyl-2-pentanone (CAS 108-10-1)
acetone (CAS 67-64-1)
Ethyl benzene (CAS 100-41-4)
Isopropanol (CAS 67-63-0)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

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

2-Butanone (CAS 78-93-3)
4-Methyl-2-pentanone (CAS 108-10-1)
acetone (CAS 67-64-1)
Ethyl benzene (CAS 100-41-4)
Isopropanol (CAS 67-63-0)
Toluene (CAS 108-88-3)
Xylene (CAS 1330-20-7)

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

Ethyl benzene (CAS 100-41-4)
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. Pregnant women should not work with the product, if there is the least risk of exposure.

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.
R12 Extremely flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes.
R36/37 Irritating to eyes and respiratory system.
R38 Irritating to skin.
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 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
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.

Revision information

Training information

Disclaimer

None.

Follow training instructions when handling this material.

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