

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

1.1. Product identifier

Trade name or designation of the mixture LIGHTNING PRIMER SURFACER - GR

Registration number -

Synonyms None.

Product code MP4-2K-G

Issue date 28-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 R10

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

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

Physical hazards

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

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Carcinogenicity	Category 2	H351 - Suspected of causing cancer.

Specific target organ toxicity - single exposure	Category 3 narcotic effects	H336 - May cause drowsiness or dizziness.
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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 Flammable.

Health hazards Not classified for health hazards. However, occupational exposure to the mixture or substance(s) 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. Direct contact with eyes may cause temporary irritation.

2.2. Label elements

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

Contains: 2-Butanone, 2-Heptanone, Carbon Black, Ethyl acetate, Ethyl benzene, n-Butyl acetate, Titanium dioxide

Hazard pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
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.
P261 Avoid breathing mist or vapour.
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.
P330 Rinse mouth.
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.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER/doctor if you feel unwell.
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.

Supplemental label information 71,14 % of the mixture consists of component(s) of unknown acute oral toxicity. 81,39 % 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
n-Butyl acetate	10 - < 20	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

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
1-Methoxy-2-propyl acetate	5 - < 10	108-65-6 203-603-9	-	607-195-00-7	#
Classification:	DSD: R10 CLP: Flam. Liq. 3;H226				
2-Heptanone	5 - < 10	110-43-0 203-767-1	-	606-024-00-3	#
Classification:	DSD: R10, Xn;R20/22 CLP: -				
barium sulfate	5 - < 10	7727-43-7 231-784-4	-	-	
Classification:	DSD: R52/53 CLP: Aquatic Chronic 3;H412				
Titanium dioxide	5 - < 10	13463-67-7 236-675-5	-	-	
Classification:	DSD: - CLP: Carc. 2;H351				
Ethyl acetate	3 - < 5	141-78-6 205-500-4	-	607-022-00-5	
Classification:	DSD: F;R11, Xi;R36, R66-67 CLP: -				
2-Butanone	1 - < 3	78-93-3 201-159-0	-	606-002-00-3	#
Classification:	DSD: F;R11, Xi;R36, R66-67 CLP: -				
1,2-Dimethybenzene	< 0,2	95-47-6 202-422-2	-	601-022-00-9	#
Classification:	DSD: R10, Xn;R20/21, Xi;R38 CLP: Flam. Liq. 3;H226, Acute Tox. 4;H312, Skin Irrit. 2;H315, Acute Tox. 4;H332, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				C C
Carbon Black	< 0,2	1333-86-4 215-609-9	-	-	
Classification:	DSD: - CLP: -				
Ethyl benzene	< 0,2	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				

Other components below reportable levels 50 - < 60

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).

SECTION 4: First aid measures**General information**

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 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. Get medical attention if irritation develops and persists.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. 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. Direct contact with eyes may cause temporary irritation.

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 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. Avoid breathing 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.

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. 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. Avoid breathing mist or vapour. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in 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
1,2-Dimethybenzene (CAS 95-47-6)	MAK	221 mg/m3	
		50 ppm	
	STEL	442 mg/m3	
1-Methoxy-2-propyl acetate (CAS 108-65-6)		100 ppm	
	Ceiling	550 mg/m3	
		100 ppm	
2-Butanone (CAS 78-93-3)	MAK	275 mg/m3	
		50 ppm	
	MAK	295 mg/m3	
2-Heptanone (CAS 110-43-0)		100 ppm	
	STEL	590 mg/m3	
		200 ppm	
Ethyl acetate (CAS 141-78-6)	MAK	237 mg/m3	
		50 ppm	
	STEL	473 mg/m3	
Ethyl benzene (CAS 100-41-4)		100 ppm	
	Ceiling	2100 mg/m3	
		600 ppm	
n-Butyl acetate (CAS 123-86-4)	MAK	1050 mg/m3	
		300 ppm	
	Ceiling	880 mg/m3	
Talc (CAS 14807-96-6)		200 ppm	
	MAK	440 mg/m3	
		100 ppm	
Titanium dioxide (CAS 13463-67-7)	Ceiling	480 mg/m3	
		100 ppm	
	MAK	480 mg/m3	
		100 ppm	
	MAK	2 mg/m3	Respirable fraction.
	MAK	5 mg/m3	Respirable dust.
	STEL	10 mg/m3	Respirable dust.

Belgium. Exposure Limit Values.

Components	Type	Value
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3
		50 ppm
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3
		300 ppm
	TWA	600 mg/m3
		200 ppm
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m3
		100 ppm
	TWA	238 mg/m3
		50 ppm
barium sulfate (CAS 7727-43-7)	TWA	10 mg/m3
Calcium carbonate (CAS 1317-65-3)	TWA	10 mg/m3
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m3
Ethyl acetate (CAS 141-78-6)	TWA	1461 mg/m3
		400 ppm
Ethyl benzene (CAS 100-41-4)	STEL	551 mg/m3
		125 ppm
	TWA	442 mg/m3
		100 ppm
n-Butyl acetate (CAS 123-86-4)	STEL	964 mg/m3
		200 ppm
	TWA	723 mg/m3
		150 ppm
Talc (CAS 14807-96-6)	TWA	2 mg/m3
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3

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

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
2-Butanone (CAS 78-93-3)	STEL	885 mg/m3	
	TWA	590 mg/m3	
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m3	
		100 ppm	
	TWA	238 mg/m3	
		50 ppm	
barium sulfate (CAS 7727-43-7)	TWA	10 mg/m3	
Calcium carbonate (CAS 1317-65-3)	TWA	1 fibers/cm3	Respirable fraction.

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

Components	Type	Value	Form
Ethyl acetate (CAS 141-78-6)	TWA	10 mg/m3	Inhalable fraction.
		10 mg/m3	
		800 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	545 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TWA	435 mg/m3	
		950 mg/m3	
Talc (CAS 14807-96-6)	TWA	710 mg/m3	Respirable fraction.
		1 fibers/cm3	
		6 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	

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

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	MAC	221 mg/m3	
		50 ppm	
		442 mg/m3	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	MAC	100 ppm	
		275 mg/m3	
2-Butanone (CAS 78-93-3)	MAC	50 ppm	
		550 mg/m3	
		100 ppm	
2-Heptanone (CAS 110-43-0)	MAC	600 mg/m3	
		200 ppm	
		900 mg/m3	
barium sulfate (CAS 7727-43-7)	MAC	300 ppm	Respirable dust.
		238 mg/m3	
Calcium carbonate (CAS 1317-65-3)	MAC	50 ppm	Total dust.
		475 mg/m3	
		100 ppm	
Carbon Black (CAS 1333-86-4)	MAC	4 mg/m3	Respirable dust.
		10 mg/m3	
		4 mg/m3	
Ethyl acetate (CAS 141-78-6)	MAC	10 mg/m3	Total dust.
		3,5 mg/m3	
Ethyl benzene (CAS 100-41-4)	MAC	7 mg/m3	
		200 ppm	
n-Butyl acetate (CAS 123-86-4)	MAC	400 ppm	
		442 mg/m3	
Talc (CAS 14807-96-6)	MAC	100 ppm	
		884 mg/m3	
		200 ppm	
Titanium dioxide (CAS 13463-67-7)	MAC	724 mg/m3	Respirable dust.
	STEL	150 ppm	
		966 mg/m3	
		200 ppm	
	STEL	1 mg/m3	Respirable dust.
		4 mg/m3	
		10 mg/m3	Total dust.

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
Ethyl acetate (CAS 141-78-6)	TWA	1400 mg/m3
n-Butyl acetate (CAS 123-86-4)	TWA	400 ppm 710 mg/m3
Talc (CAS 14807-96-6)	TWA	150 ppm 706 part/cm3
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	Ceiling	400 mg/m3	
	TWA	200 mg/m3	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	Ceiling	550 mg/m3	
	TWA	270 mg/m3	
2-Butanone (CAS 78-93-3)	Ceiling	900 mg/m3	
	TWA	600 mg/m3	
2-Heptanone (CAS 110-43-0)	Ceiling	300 mg/m3	
	TWA	150 mg/m3	
Calcium carbonate (CAS 1317-65-3)	TWA	10 mg/m3	Dust.
Carbon Black (CAS 1333-86-4)	TWA	2 mg/m3	Dust.
Ethyl acetate (CAS 141-78-6)	Ceiling	900 mg/m3	
	TWA	700 mg/m3	
Ethyl benzene (CAS 100-41-4)	Ceiling	500 mg/m3	
	TWA	200 mg/m3	
n-Butyl acetate (CAS 123-86-4)	Ceiling	1200 mg/m3	
	TWA	950 mg/m3	
Talc (CAS 14807-96-6)	TWA	10 mg/m3	Total dust.
		10 mg/m3	Respirable dust.

Denmark. Exposure Limit Values

Components	Type	Value
1,2-Dimethybenzene (CAS 95-47-6)	TLV	109 mg/m3
		25 ppm
1-Methoxy-2-propyl acetate (CAS 108-65-6)	TLV	275 mg/m3
		50 ppm
2-Butanone (CAS 78-93-3)	TLV	145 mg/m3
		50 ppm
2-Heptanone (CAS 110-43-0)	TLV	238 mg/m3
		50 ppm
Carbon Black (CAS 1333-86-4)	TLV	3,5 mg/m3
Ethyl acetate (CAS 141-78-6)	TLV	540 mg/m3
		150 ppm
Ethyl benzene (CAS 100-41-4)	TLV	217 mg/m3
		50 ppm
n-Butyl acetate (CAS 123-86-4)	TLV	710 mg/m3
		150 ppm
Titanium dioxide (CAS 13463-67-7)	TLV	6 mg/m3

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

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	450 mg/m3	
		100 ppm	
	TWA	200 mg/m3 50 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	275 mg/m3 50 ppm	
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3 300 ppm	
		600 mg/m3	
	TWA	200 ppm	
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m3	
		100 ppm	
	TWA	238 mg/m3 50 ppm	
Calcium carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable dust.
Ethyl acetate (CAS 141-78-6)	STEL	10 mg/m3 1100 mg/m3	
		300 ppm	
	TWA	500 mg/m3 150 ppm	
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3 100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	700 mg/m3	
		150 ppm	
	TWA	500 mg/m3 100 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	

Finland. Workplace Exposure Limits

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	440 mg/m3	
		110 ppm	
	TWA	220 mg/m3 50 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	270 mg/m3 50 ppm	
2-Butanone (CAS 78-93-3)	STEL	300 mg/m3 100 ppm	
		360 mg/m3	
	TWA	75 ppm 240 mg/m3 50 ppm	
barium sulfate (CAS 7727-43-7)	TWA	10 mg/m3	Dust.
Calcium carbonate (CAS 1317-65-3)	TWA	10 mg/m3	Dust.

Finland. Workplace Exposure Limits

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
Ethyl acetate (CAS 141-78-6)	STEL	1800 mg/m3	
		500 ppm	
	TWA	1100 mg/m3	
		300 ppm	
Ethyl benzene (CAS 100-41-4)	STEL	880 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	960 mg/m3	
		200 ppm	
	TWA	720 mg/m3	
		150 ppm	
Talc (CAS 14807-96-6)	STEL	2 ppm	Inhalable dust.
		1 ppm	Respirable.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Dust.

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

Components	Type	Value
1,2-Dimethybenzene (CAS 95-47-6)	VLE	442 mg/m3
		100 ppm
	VME	221 mg/m3
		50 ppm
1-Methoxy-2-propyl acetate (CAS 108-65-6)	VLE	550 mg/m3
		110 ppm
	VME	275 mg/m3
		50 ppm
2-Butanone (CAS 78-93-3)	VLE	900 mg/m3
		300 ppm
	VME	600 mg/m3
		200 ppm
2-Heptanone (CAS 110-43-0)	VLE	475 mg/m3
		100 ppm
	VME	238 mg/m3
		50 ppm
Calcium carbonate (CAS 1317-65-3)	VME	10 mg/m3
Carbon Black (CAS 1333-86-4)	VME	3,5 mg/m3
Ethyl acetate (CAS 141-78-6)	VME	1400 mg/m3
		400 ppm
Ethyl benzene (CAS 100-41-4)	VLE	442 mg/m3
		100 ppm
	VME	88,4 mg/m3
		20 ppm
n-Butyl acetate (CAS 123-86-4)	VLE	940 mg/m3
		200 ppm
	VME	710 mg/m3
		150 ppm
Titanium dioxide (CAS 13463-67-7)	VME	10 mg/m3

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

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	TWA	440 mg/m3	
		100 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	TWA	270 mg/m3	
		50 ppm	
2-Butanone (CAS 78-93-3)	TWA	600 mg/m3	
		200 ppm	
barium sulfate (CAS 7727-43-7)	TWA	4 mg/m3	Inhalable fraction.
		1,5 mg/m3	Respirable fraction.
Ethyl acetate (CAS 141-78-6)	TWA	1500 mg/m3	
		400 ppm	
Ethyl benzene (CAS 100-41-4)	TWA	88 mg/m3	
		20 ppm	
n-Butyl acetate (CAS 123-86-4)	TWA	480 mg/m3	
		100 ppm	

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

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	AGW	440 mg/m3	
		100 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	AGW	270 mg/m3	
		50 ppm	
2-Butanone (CAS 78-93-3)	AGW	600 mg/m3	
		200 ppm	
2-Heptanone (CAS 110-43-0)	AGW	238 mg/m3	
barium sulfate (CAS 7727-43-7)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Ethyl acetate (CAS 141-78-6)	AGW	1500 mg/m3	
		400 ppm	
Ethyl benzene (CAS 100-41-4)	AGW	88 mg/m3	
		20 ppm	
n-Butyl acetate (CAS 123-86-4)	AGW	300 mg/m3	
		62 ppm	
Talc (CAS 14807-96-6)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	650 mg/m3	
		150 ppm	
	TWA	435 mg/m3	
		100 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	

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

Components	Type	Value	Form
2-Heptanone (CAS 110-43-0)	TWA	600 mg/m3	
		200 ppm	
	STEL	465 mg/m3	
Calcium carbonate (CAS 1317-65-3)	TWA	100 ppm	Respirable.
		465 mg/m3	
		100 ppm	
Carbon Black (CAS 1333-86-4)	TWA	5 mg/m3	Inhalable
		10 mg/m3	
	STEL	7 mg/m3	
Ethyl acetate (CAS 141-78-6)	TWA	3,5 mg/m3	
	TWA	1400 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	400 ppm	
		545 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TWA	125 ppm	
		435 mg/m3	
	STEL	100 ppm	
Talc (CAS 14807-96-6)		950 mg/m3	
	TWA	200 ppm	
		710 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	150 ppm	Respirable.
		2 mg/m3	
		10 mg/m3	
		5 mg/m3	Inhalable
		10 mg/m3	Respirable.
		10 mg/m3	Inhalable

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	TWA	221 mg/m3	
	STEL	550 mg/m3	
2-Butanone (CAS 78-93-3)	TWA	275 mg/m3	
	STEL	900 mg/m3	
2-Heptanone (CAS 110-43-0)	TWA	600 mg/m3	
	STEL	476 mg/m3	
Calcium carbonate (CAS 1317-65-3)	TWA	238 mg/m3	
	TWA	10 mg/m3	
Ethyl acetate (CAS 141-78-6)	STEL	1400 mg/m3	
	TWA	1400 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3	
	TWA	442 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	950 mg/m3	
	TWA	950 mg/m3	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.

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

Components	Type	Value
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3
	TWA	100 ppm
		109 mg/m3
		25 ppm

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

Components	Type	Value
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	550 mg/m3
		100 ppm
	TWA	275 mg/m3
		50 ppm
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3
		300 ppm
	TWA	145 mg/m3
		50 ppm
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m3
		100 ppm
	TWA	238 mg/m3
		50 ppm
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m3
Ethyl acetate (CAS 141-78-6)	TWA	540 mg/m3
		150 ppm
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	200 mg/m3
		50 ppm
n-Butyl acetate (CAS 123-86-4)	TWA	700 mg/m3
		150 ppm
Titanium dioxide (CAS 13463-67-7)	TWA	6 mg/m3

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	550 mg/m3	
		100 ppm	
	TWA	275 mg/m3	
		50 ppm	
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
2-Heptanone (CAS 110-43-0)	STEL	475 mg/m3	
		100 ppm	
	TWA	238 mg/m3	
		50 ppm	
barium sulfate (CAS 7727-43-7)	TWA	2 mg/m3	Respirable dust.
Calcium carbonate (CAS 1317-65-3)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
Ethyl acetate (CAS 141-78-6)	STEL	400 ppm	
	TWA	200 ppm	
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	

Ireland. Occupational Exposure Limits Components

Components	Type	Value	Form
n-Butyl acetate (CAS 123-86-4)	TWA	442 mg/m3	
		100 ppm	
	STEL	950 mg/m3	
Talc (CAS 14807-96-6)	TWA	200 ppm	Total inhalable dust.
		710 mg/m3	
		150 ppm	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Respirable dust.
		0,8 mg/m3	
		4 mg/m3	
		10 mg/m3	Total inhalable dust.

Italy. Occupational Exposure Limits Components

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3	
		100 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	TWA	221 mg/m3	
		50 ppm	
	STEL	550 mg/m3	
2-Butanone (CAS 78-93-3)	TWA	100 ppm	
		275 mg/m3	
		50 ppm	
2-Heptanone (CAS 110-43-0)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
barium sulfate (CAS 7727-43-7)	STEL	200 ppm	
		475 mg/m3	
		100 ppm	
Carbon Black (CAS 1333-86-4)	TWA	238 mg/m3	Inhalable fraction.
		50 ppm	
		5 mg/m3	
Ethyl acetate (CAS 141-78-6)	TWA	3 mg/m3	Inhalable fraction.
		400 ppm	
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	100 ppm	
		200 ppm	
		200 ppm	
Talc (CAS 14807-96-6)	TWA	150 ppm	Respirable fraction.
		2 mg/m3	
	TWA	10 mg/m3	
Titanium dioxide (CAS 13463-67-7)			

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

Components	Type	Value
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3
		100 ppm
1-Methoxy-2-propyl acetate (CAS 108-65-6)	TWA	221 mg/m3
		50 ppm
	STEL	550 mg/m3
2-Butanone (CAS 78-93-3)	TWA	100 ppm
		275 mg/m3
		50 ppm
	STEL	900 mg/m3

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

Components	Type	Value
2-Heptanone (CAS 110-43-0)	TWA	300 ppm
		200 mg/m3
	STEL	67 ppm
		475 mg/m3
Ethyl acetate (CAS 141-78-6)	TWA	100 ppm
		238 mg/m3
	STEL	50 ppm
		200 mg/m3
Ethyl benzene (CAS 100-41-4)	TWA	884 mg/m3
		200 ppm
	STEL	442 mg/m3
		100 ppm
n-Butyl acetate (CAS 123-86-4)	TWA	200 mg/m3
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3

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

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	450 mg/m3	Inhalable fraction. Respirable fraction.
		100 ppm	
	TWA	200 mg/m3	
		50 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	400 mg/m3	
		75 ppm	
	TWA	250 mg/m3	
		50 ppm	
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3	
		300 ppm	
	TWA	600 mg/m3	
		200 ppm	
2-Heptanone (CAS 110-43-0)	STEL	250 mg/m3	
		50 ppm	
	TWA	120 mg/m3	
		25 ppm	
Ethyl acetate (CAS 141-78-6)	Ceiling	1100 mg/m3	
		300 ppm	
	TWA	500 mg/m3	
		150 ppm	
Ethyl benzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	700 mg/m3	
		150 ppm	
	TWA	500 mg/m3	
		100 ppm	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	1 mg/m3	
		5 mg/m3	

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

Components	Type	Value
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3

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

Components	Type	Value
1-Methoxy-2-propyl acetate (CAS 108-65-6)	TWA	100 ppm
		221 mg/m3
	STEL	50 ppm
		550 mg/m3
2-Butanone (CAS 78-93-3)	TWA	100 ppm
		275 mg/m3
	STEL	50 ppm
		900 mg/m3
2-Heptanone (CAS 110-43-0)	TWA	300 ppm
		600 mg/m3
	STEL	200 ppm
		475 mg/m3
Ethyl benzene (CAS 100-41-4)	TWA	100 ppm
		238 mg/m3
	STEL	50 ppm
		884 mg/m3
	TWA	200 ppm
		442 mg/m3
		100 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
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3
	TWA	100 ppm
		221 mg/m3
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	50 ppm
		550 mg/m3
	TWA	100 ppm
2-Butanone (CAS 78-93-3)	STEL	275 mg/m3
		50 ppm
	TWA	900 mg/m3
2-Heptanone (CAS 110-43-0)	STEL	300 ppm
		600 mg/m3
	TWA	200 ppm
Ethyl benzene (CAS 100-41-4)	STEL	475 mg/m3
		100 ppm
	TWA	238 mg/m3
	STEL	50 ppm
		884 mg/m3
	TWA	200 ppm
	TWA	442 mg/m3
		100 ppm
	TWA	100 ppm

Netherlands. OELs (binding)

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3	
	TWA	210 mg/m3	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	TWA	550 mg/m3	
2-Butanone (CAS 78-93-3)	STEL	900 mg/m3	
	TWA	590 mg/m3	
2-Heptanone (CAS 110-43-0)	TWA	233 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	430 mg/m3	
	TWA	215 mg/m3	

Netherlands. OELs (binding)

Components	Type	Value	Form
Talc (CAS 14807-96-6)	TWA	0,25 mg/m3	Respirable dust.

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	TLV	108 mg/m3	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	TLV	25 ppm 270 mg/m3	
2-Butanone (CAS 78-93-3)	TLV	50 ppm 220 mg/m3 75 ppm	
2-Heptanone (CAS 110-43-0)	TLV	115 mg/m3	
Carbon Black (CAS 1333-86-4)	TLV	25 ppm 3,5 mg/m3	
Ethyl acetate (CAS 141-78-6)	TLV	550 mg/m3	
Ethyl benzene (CAS 100-41-4)	TLV	150 ppm 20 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TLV	5 ppm 355 mg/m3	
Talc (CAS 14807-96-6)	TLV	75 ppm 6 mg/m3 2 mg/m3	Total dust. Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TLV	5 mg/m3	

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

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	TWA	100 mg/m3	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	520 mg/m3	
2-Butanone (CAS 78-93-3)	TWA STEL	260 mg/m3 900 mg/m3	
2-Heptanone (CAS 110-43-0)	TWA STEL	450 mg/m3 475 mg/m3	
Carbon Black (CAS 1333-86-4)	TWA TWA	238 mg/m3 4 mg/m3	Total dust.
Ethyl acetate (CAS 141-78-6)	STEL	600 mg/m3	
Ethyl benzene (CAS 100-41-4)	TWA STEL	200 mg/m3 400 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TWA STEL	200 mg/m3 950 mg/m3	
Talc (CAS 14807-96-6)	TWA TWA	200 mg/m3 4 mg/m3 1 mg/m3	Total dust. Respirable dust.
Titanium dioxide (CAS 13463-67-7)	STEL TWA	30 mg/m3 10 mg/m3	Total dust.

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

Components	Type	Value
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3
	TWA	100 ppm 221 mg/m3

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

Components	Type	Value
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	50 ppm 550 mg/m3
	TWA	100 ppm 275 mg/m3
2-Butanone (CAS 78-93-3)	STEL	50 ppm 900 mg/m3
	TWA	300 ppm 600 mg/m3
2-Heptanone (CAS 110-43-0)	STEL	200 ppm 475 mg/m3
	TWA	100 ppm 238 mg/m3
Ethyl benzene (CAS 100-41-4)	STEL	50 ppm 884 mg/m3
	TWA	200 ppm 442 mg/m3
		100 ppm

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

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	150 ppm	
	TWA	100 ppm	
2-Butanone (CAS 78-93-3)	STEL	300 ppm	
	TWA	200 ppm	
2-Heptanone (CAS 110-43-0)	TWA	50 ppm	
barium sulfate (CAS 7727-43-7)	TWA	10 mg/m3	
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m3	Fume.
Ethyl acetate (CAS 141-78-6)	TWA	400 ppm	
Ethyl benzene (CAS 100-41-4)	STEL	125 ppm	
	TWA	100 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL	200 ppm	
	TWA	150 ppm	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

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

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3	
	TWA	100 ppm 221 mg/m3	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	50 ppm 550 mg/m3	
	TWA	100 ppm 275 mg/m3	
2-Butanone (CAS 78-93-3)	STEL	50 ppm 900 mg/m3	
	TWA	300 ppm 600 mg/m3	
2-Heptanone (CAS 110-43-0)	STEL	200 ppm 475 mg/m3	
	TWA	100 ppm 238 mg/m3	

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

Components	Type	Value	Form
Calcium carbonate (CAS 1317-65-3)	TWA	50 ppm 10 mg/m3	Inhalable fraction.
Ethyl acetate (CAS 141-78-6)	STEL	500 mg/m3	
Ethyl benzene (CAS 100-41-4)	TWA	139 ppm 400 mg/m3	Inhalable fraction.
		111 ppm 884 mg/m3	
	STEL	200 ppm 442 mg/m3	
		100 ppm 950 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TWA	200 ppm 715 mg/m3	Inhalable fraction.
Talc (CAS 14807-96-6)	STEL	150 ppm 2 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	15 mg/m3	
	TWA	10 mg/m3	

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

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3	Inhalable fraction.
	TWA	100 ppm 221 mg/m3	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	50 ppm 550 mg/m3	Respirable fraction.
	TWA	100 ppm 275 mg/m3	
2-Butanone (CAS 78-93-3)	STEL	50 ppm 900 mg/m3	Inhalable fraction.
	TWA	300 ppm 600 mg/m3	
2-Heptanone (CAS 110-43-0)	STEL	200 ppm 475 mg/m3	Respirable fraction.
	TWA	100 ppm 238 mg/m3	
barium sulfate (CAS 7727-43-7)	TWA	50 ppm 4 mg/m3	Inhalable fraction.
Calcium carbonate (CAS 1317-65-3)	TWA	1,5 mg/m3 10 mg/m3	
Carbon Black (CAS 1333-86-4)	TWA	2 mg/m3	Respirable fraction.
Ethyl acetate (CAS 141-78-6)	STEL	1100 mg/m3	
Ethyl benzene (CAS 100-41-4)	TWA	300 ppm 500 mg/m3	Inhalable fraction.
		150 ppm 884 mg/m3	
	STEL	200 ppm 442 mg/m3	
		100 ppm 700 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TWA	150 ppm 500 mg/m3	Respirable fraction.
	TWA	150 ppm 500 mg/m3	

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

Components	Type	Value	Form
Talc (CAS 14807-96-6)	TWA	100 ppm	
		2 mg/m3	Respirable fraction.
		2 mg/m3	Respirable fraction.
		10 mg/m3	Total
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	

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
1,2-Dimethybenzene (CAS 95-47-6)	TWA	221 mg/m3	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	TWA	50 ppm	
		275 mg/m3	
2-Butanone (CAS 78-93-3)	TWA	50 ppm	
		600 mg/m3	
2-Heptanone (CAS 110-43-0)	TWA	200 ppm	
		238 mg/m3	
Ethyl acetate (CAS 141-78-6)	TWA	50 ppm	
		1400 mg/m3	
Ethyl benzene (CAS 100-41-4)	TWA	400 ppm	
		442 mg/m3	
n-Butyl acetate (CAS 123-86-4)	TWA	100 ppm	
		480 mg/m3	
Talc (CAS 14807-96-6)	TWA	100 ppm	
		2 mg/m3	Respirable fraction.

Spain. Occupational Exposure Limits

Components	Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3	
	TWA	100 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	221 mg/m3	
		50 ppm	
2-Butanone (CAS 78-93-3)	STEL	550 mg/m3	
		100 ppm	
2-Heptanone (CAS 110-43-0)	STEL	275 mg/m3	
		50 ppm	
barium sulfate (CAS 7727-43-7)	TWA	900 mg/m3	
		300 ppm	
Carbon Black (CAS 1333-86-4)	TWA	600 mg/m3	
		200 ppm	
Ethyl acetate (CAS 141-78-6)	TWA	474 mg/m3	
		100 ppm	
Ethyl benzene (CAS 100-41-4)	STEL	237 mg/m3	
		50 ppm	
	TWA	10 mg/m3	
	TWA	3,5 mg/m3	
	TWA	1460 mg/m3	
	STEL	400 ppm	
		884 mg/m3	
	TWA	200 ppm	
		441 mg/m3	
		100 ppm	

**Spain. Occupational Exposure Limits
Components**

Type	Value	Form
n-Butyl acetate (CAS 123-86-4)	STEL 965 mg/m3 200 ppm	Respirable fraction.
TWA	724 mg/m3 150 ppm	
Talc (CAS 14807-96-6)	TWA 2 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA 10 mg/m3	

**Sweden. Occupational Exposure Limit Values
Components**

Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL 442 mg/m3 100 ppm	
TWA	221 mg/m3 50 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL 400 mg/m3 75 ppm	
TWA	250 mg/m3 50 ppm	
2-Butanone (CAS 78-93-3)	STEL 300 mg/m3 100 ppm	
TWA	150 mg/m3 50 ppm	
2-Heptanone (CAS 110-43-0)	STEL 250 mg/m3 50 ppm	
TWA	120 mg/m3 25 ppm	
Ethyl acetate (CAS 141-78-6)	STEL 1100 mg/m3 300 ppm	
TWA	500 mg/m3 150 ppm	
Ethyl benzene (CAS 100-41-4)	STEL 450 mg/m3 100 ppm	
TWA	200 mg/m3 50 ppm	
n-Butyl acetate (CAS 123-86-4)	STEL 700 mg/m3 150 ppm	Total dust. Respirable dust. Total dust.
TWA	500 mg/m3 100 ppm	
Talc (CAS 14807-96-6)	TWA 2 mg/m3 1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA 5 mg/m3	

**Switzerland. SUVA Grenzwerte am Arbeitsplatz
Components**

Type	Value	Form
1,2-Dimethybenzene (CAS 95-47-6)	STEL 870 mg/m3 200 ppm	
TWA	435 mg/m3 100 ppm	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL 275 mg/m3 50 ppm	
TWA	275 mg/m3 50 ppm	
2-Butanone (CAS 78-93-3)	STEL 590 mg/m3 200 ppm	
TWA	590 mg/m3	

Switzerland. SUVA Grenzwerte am Arbeitsplatz
Components **Type**

Value **Form**

2-Heptanone (CAS 110-43-0)	TWA	200 ppm 235 mg/m3	
Ethyl acetate (CAS 141-78-6)	STEL	50 ppm 2800 mg/m3	
	TWA	800 ppm 1400 mg/m3	
Ethyl benzene (CAS 100-41-4)	STEL	400 ppm 220 mg/m3	
	TWA	50 ppm 220 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	50 ppm 960 mg/m3	
	TWA	200 ppm 480 mg/m3	
Talc (CAS 14807-96-6)	TWA	100 ppm 2 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable dust.

UK. EH40 Workplace Exposure Limits (WELs)
Components **Type**

Value **Form**

1,2-Dimethybenzene (CAS 95-47-6)	STEL	441 mg/m3	
	TWA	100 ppm 220 mg/m3	
1-Methoxy-2-propyl acetate (CAS 108-65-6)	STEL	50 ppm 548 mg/m3	
	TWA	100 ppm 274 mg/m3	
2-Butanone (CAS 78-93-3)	STEL	50 ppm 899 mg/m3	
	TWA	300 ppm 600 mg/m3	
2-Heptanone (CAS 110-43-0)	STEL	200 ppm 475 mg/m3	
	TWA	100 ppm 237 mg/m3	
barium sulfate (CAS 7727-43-7)	TWA	50 ppm 4 mg/m3	Respirable dust.
Calcium carbonate (CAS 1317-65-3)	TWA	10 mg/m3 4 mg/m3	Inhalable dust. Respirable.
		4 mg/m3 10 mg/m3 10 mg/m3	Respirable dust. Inhalable dust. Inhalable
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
Ethyl acetate (CAS 141-78-6)	STEL	400 ppm	
	TWA	200 ppm	
Ethyl benzene (CAS 100-41-4)	STEL	552 mg/m3	
	TWA	125 ppm 441 mg/m3	
n-Butyl acetate (CAS 123-86-4)	STEL	100 ppm 966 mg/m3	

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Talc (CAS 14807-96-6) Titanium dioxide (CAS 13463-67-7)	TWA	200 ppm	Respirable dust.
		724 mg/m3	
		150 ppm	
	TWA	1 mg/m3	Respirable.
	TWA	4 mg/m3	
		10 mg/m3	Inhalable

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

Components	Type	Value
1,2-Dimethybenzene (CAS 95-47-6)	STEL	442 mg/m3
1-Methoxy-2-propyl acetate (CAS 108-65-6)	TWA	100 ppm
		221 mg/m3
	STEL	50 ppm
		550 mg/m3
2-Butanone (CAS 78-93-3)	TWA	100 ppm
		275 mg/m3
	STEL	50 ppm
		900 mg/m3
2-Heptanone (CAS 110-43-0)	TWA	300 ppm
		600 mg/m3
	STEL	200 ppm
		475 mg/m3
Ethyl benzene (CAS 100-41-4)	TWA	100 ppm
		238 mg/m3
	STEL	50 ppm
		884 mg/m3
	TWA	200 ppm
		442 mg/m3
		100 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
1,2-Dimethybenzene (CAS 95-47-6)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*
Ethyl benzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*
	1500 mg/g	Mandelic 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
1,2-Dimethybenzene (CAS 95-47-6)	5 mmol/l	Methylhippuric acids	Urine	*
Ethyl benzene (CAS 100-41-4)	5,2 mmol/l	Mandelic acid	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
1,2-Dimethybenzene (CAS 95-47-6)	1500 mg/g	Acides méthylhippuriques	Creatinine in urine	*
2-Butanone (CAS 78-93-3)	2 mg/l	Méthyléthylcétone	Urine	*

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

Components	Value	Determinant	Specimen	Sampling time
Ethyl benzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	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
1,2-Dimethybenzene (CAS 95-47-6)	2000 mg/l	Methylhippur-(Tolur-) säure (alle Isomere)	Urine	*
	1,5 mg/l	Xylol	Blood	*
2-Butanone (CAS 78-93-3)	5 mg/l	2-Butanon	Urine	*
Ethyl benzene (CAS 100-41-4)	300 mg/l	Mandelsäure plus Phenylglyoxylsäure	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
1,2-Dimethybenzene (CAS 95-47-6)	1500 mg/g	methyl hippuric acids	Creatinine in urine	*
	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*
Ethyl benzene (CAS 100-41-4)	1500 mg/g	mandelic acid	Creatinine in urine	*
	1110 µmol/mmol	mandelic acid	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
1,2-Dimethybenzene (CAS 95-47-6)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*
	2000 mg/l	Methylhippuric acids	Urine	*
	1,5 mg/l	Xylene	Blood	*
Ethyl benzene (CAS 100-41-4)	8,03 mg/g	2-ethylphenol	Creatinine in urine	*
	12 mg/l	2-ethylphenol	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
1,2-Dimethybenzene (CAS 95-47-6)	1 g/g	Ácidos metilhipúricos	Creatinine in urine	*
2-Butanone (CAS 78-93-3)	2 mg/l	Metiletilcetona	Urine	*
Ethyl benzene (CAS 100-41-4)	700 mg/g	Suma del ácido mandélico y el ácido fenilgloxílico	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
1,2-Dimethybenzene (CAS 95-47-6)	1,5 g/g	Methyl-Hippursäure	Creatinine in urine	*
	1,5 mg/l	Xylol	Blood	*
2-Butanone (CAS 78-93-3)	5 mg/l	2-Butanon (MEK)	Urine	*
Ethyl benzene (CAS 100-41-4)	800 mg/l	Mandelsäure plus Phenylglyoxylsäure	Urine	*

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

UK. EH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen	Sampling time
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1,2-Dimethybenzene (CAS 95-47-6)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*
2-Butanone (CAS 78-93-3)	70 umol/l	Butan-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**

1,2-Dimethybenzene (CAS 95-47-6)	Can be absorbed through the skin.
1-Methoxy-2-propyl acetate (CAS 108-65-6)	Can be absorbed through the skin.
2-Heptanone (CAS 110-43-0)	Can be absorbed through the skin.
Ethyl benzene (CAS 100-41-4)	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 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 protective gloves.

- Other Wear suitable protective 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.
Colour	Grey to. Green Grey Opaque.

Odour Solvent.

Odour threshold Not available.

pH Not available.

Melting point/freezing point -78 °C (-108,4 °F) estimated

Initial boiling point and boiling range 126,1 °C (258,98 °F) estimated

Flash point 22,0 °C (71,6 °F) estimated

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) 1,1 % estimated

Flammability limit - upper (%) 7,9 % estimated

Vapour pressure 644,86 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 393,33 °C (740 °F) estimated

Decomposition temperature Not available.

Viscosity Not available.

Explosive properties Not available.

Oxidizing properties Not available.

9.2. Other information

Density 12,29 lbs/gal

Percent volatile 33,23 %

Specific gravity 1,48

VOC 4,1 lbs/gal Material
4,1 lbs/gal Regulatory
490 g/l Material
490 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. Nitrates. Aluminium. Phosphorus. Fluorine.

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 May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Harmful if swallowed.

Symptoms Headache. May cause drowsiness and dizziness. Nausea, vomiting.

11.1. Information on toxicological effects

Acute toxicity Harmful if swallowed. Narcotic effects.

Components	Species	Test results
1,2-Dimethylbenzene (CAS 95-47-6)		
Acute		
Dermal		
LD50	Rabbit	> 43 g/kg
Inhalation		
LC50	Mouse	4600 ppm, 6 Hours

Components	Species	Test results
	Rat	6350 ppm, 4 Hours
Oral		
LD50	Mouse	1590 mg/kg
	Rat	4300 mg/kg
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
2-Heptanone (CAS 110-43-0)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	12600 mg/kg
Oral		
LD50	Mouse	730 mg/kg
	Rat	1,67 g/kg
Carbon Black (CAS 1333-86-4)		
<u>Acute</u>		
Oral		
LD50	Rat	> 8000 mg/kg
Ethyl acetate (CAS 141-78-6)		
<u>Acute</u>		
Inhalation		
LC50	Rat	16000 ppm, 6 Hours
LD50	Mouse	1500 ppm, 4 Hours
	Rabbit	2500 ppm, 4 Hours
	Rat	4000 ppm, 4 Hours
Oral		
LD50	Mouse	0,44 g/kg
	Rabbit	4,9 g/kg
	Rat	11,3 ml/kg
		5,6 g/kg
Ethyl benzene (CAS 100-41-4)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	17800 mg/kg
Oral		
LD50	Rat	3500 mg/kg
n-Butyl acetate (CAS 123-86-4)		
<u>Acute</u>		
Inhalation		
LC50	Wistar rat	160 mg/l, 4 Hours
Oral		
LD50	Rat	14000 mg/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	Due to partial or complete lack of data the classification is not possible.
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

1,2-Dimethybenzene (CAS 95-47-6)	3 Not classifiable as to carcinogenicity 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.

Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	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
1,2-Dimethybenzene (CAS 95-47-6)				
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	0,78 - 2,51 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	5,59 - 11,6 mg/l, 96 hours	
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	
2-Heptanone (CAS 110-43-0)				
Aquatic				
Fish	LC50	Fathead minnow (Pimephales promelas)	126 - 137 mg/l, 96 hours	
barium sulfate (CAS 7727-43-7)				
Aquatic				
Crustacea	EC50	Tubificid worm (Tubifex tubifex)	28,61 - 38,03 mg/l, 48 hours	
Ethyl acetate (CAS 141-78-6)				
Aquatic				
Fish	LC50	Indian catfish (Heteropneustes fossilis)	200,32 - 225,42 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	
n-Butyl acetate (CAS 123-86-4)				
Aquatic				
Fish	LC50	Fathead minnow (Pimephales promelas)	17 - 19 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	

* 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)	
1,2-Dimethylbenzene	3,12
2-Butanone	0,29
2-Heptanone	1,98
Ethyl acetate	0,73
Ethyl benzene	3,15
n-Butyl acetate	1,78
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
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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 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)

Ethyl acetate (CAS 141-78-6)

Ethyl benzene (CAS 100-41-4)

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

Not listed.

Other EU regulations

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

1,2-Dimethybenzene (CAS 95-47-6)

1-Methoxy-2-propyl acetate (CAS 108-65-6)

2-Butanone (CAS 78-93-3)

2-Heptanone (CAS 110-43-0)

Ethyl acetate (CAS 141-78-6)

Ethyl benzene (CAS 100-41-4)

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

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

1,2-Dimethybenzene (CAS 95-47-6)

1-Methoxy-2-propyl acetate (CAS 108-65-6)

2-Butanone (CAS 78-93-3)

2-Heptanone (CAS 110-43-0)

Ethyl acetate (CAS 141-78-6)

Ethyl benzene (CAS 100-41-4)

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

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

Ethyl benzene (CAS 100-41-4)

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 Harmful by inhalation and in contact with skin.
R20/22 Harmful by inhalation and if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
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.

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