

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

### 1.1. Product identifier

Trade name or designation of the mixture SELF ETCHING WASH PRIMER ACTIV  
 Registration number -  
 Synonyms None.  
 Product code MA-610-QT  
 Issue date 28-March-2015  
 Version number 01

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

Identified uses Automotive Refinish Hardener/Activator  
 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;R11, Xn;R20/21/22-68/20/21/22, Xi;R41

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.
Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Acute toxicity, inhalation	Category 4	H332 - Harmful if inhaled.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Carcinogenicity	Category 2	H351 - Suspected of causing cancer.
Specific target organ toxicity - single exposure	Category 2	H371 - May cause damage to organs.

##### Environmental hazards

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

Physical hazards Highly flammable.

<b>Health hazards</b>	Harmful by inhalation, in contact with skin and if swallowed. Risk of serious damage to eyes. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. Occupational exposure to the substance or mixture may cause adverse health effects.
<b>Environmental hazards</b>	Not classified for hazards to the environment.
<b>Specific hazards</b>	Prolonged exposure may cause chronic effects.
<b>Main symptoms</b>	Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.

## 2.2. Label elements

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

**Contains:** 4-Methyl-2-pentanone, Methanol, N-Butyl Alcohol, Phosphoric Acid

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H371	May cause damage to organs.
H411	Toxic to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
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.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P330	Rinse mouth.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.
P391	Collect spillage.

#### Storage

P403 + 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** 83,51 % of the mixture consists of component(s) of unknown acute dermal toxicity. 11,29 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 6,35 % 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
Ethanol	80 - < 90	64-17-5 200-578-6	-	603-002-00-5	
<b>Classification:</b>	<b>DSD:</b> F;R11, Xi;R36				
	<b>CLP:</b> -				
N-Butyl Alcohol	5 - < 10	71-36-3 200-751-6	-	603-004-00-6	
<b>Classification:</b>	<b>DSD:</b> R10, Xn;R22, Xi;R37/38-41, R67				
	<b>CLP:</b> -				
Methanol	3 - < 5	67-56-1 200-659-6	-	603-001-00-X	#
<b>Classification:</b>	<b>DSD:</b> F;R11, T;R23/24/25-39/23/24/25				
	<b>CLP:</b> -				
4-Methyl-2-pentanone	1 - < 3	108-10-1 203-550-1	-	606-004-00-4	#
<b>Classification:</b>	<b>DSD:</b> F;R11, Xn;R20, Xi;R36/37, R66				
	<b>CLP:</b> -				
Phosphoric Acid	1 - < 3	7664-38-2 231-633-2	-	015-011-00-6	#
<b>Classification:</b>	<b>DSD:</b> C;R34				B
	<b>CLP:</b> -				B

Other components below reportable levels < 0,3

### List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

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

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

## SECTION 4: First aid measures

### General information

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

### 4.1. Description of first aid measures

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTRE or doctor/physician if you feel unwell.

#### Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

#### Eye contact

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

#### 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

Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.

### 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

<b>General fire hazards</b>	Highly flammable liquid and vapour.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	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.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	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.
<b>For emergency responders</b>	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the SDS.
<b>6.2. Environmental precautions</b>	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.
<b>6.3. Methods and material for containment and cleaning up</b>	<p>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.</p> <p>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 entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.</p> <p>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.</p> <p>Never return spills to original containers for re-use.</p>
<b>6.4. Reference to other sections</b>	For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapour. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	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).
<b>7.3. Specific end use(s)</b>	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
4-Methyl-2-pentanone (CAS 108-10-1)	MAK	83 mg/m <sup>3</sup>
	STEL	20 ppm 208 mg/m <sup>3</sup> 50 ppm
Ethanol (CAS 64-17-5)	Ceiling	3800 mg/m <sup>3</sup> 2000 ppm
	MAK	1900 mg/m <sup>3</sup> 1000 ppm
Methanol (CAS 67-56-1)	MAK	260 mg/m <sup>3</sup> 200 ppm
	STEL	1040 mg/m <sup>3</sup> 800 ppm
N-Butyl Alcohol (CAS 71-36-3)	MAK	150 mg/m <sup>3</sup> 50 ppm
	STEL	600 mg/m <sup>3</sup> 200 ppm
Phosphoric Acid (CAS 7664-38-2)	MAK	1 mg/m <sup>3</sup>
	STEL	2 mg/m <sup>3</sup>

##### Belgium. Exposure Limit Values.

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m <sup>3</sup> 50 ppm
	TWA	83 mg/m <sup>3</sup> 20 ppm
Ethanol (CAS 64-17-5)	TWA	1907 mg/m <sup>3</sup> 1000 ppm
Methanol (CAS 67-56-1)	STEL	333 mg/m <sup>3</sup> 250 ppm
	TWA	266 mg/m <sup>3</sup> 200 ppm
N-Butyl Alcohol (CAS 71-36-3)	TWA	62 mg/m <sup>3</sup> 20 ppm
	STEL	2 mg/m <sup>3</sup>
Phosphoric Acid (CAS 7664-38-2)	TWA	1 mg/m <sup>3</sup>

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 mg/m <sup>3</sup>
	TWA	50 mg/m <sup>3</sup>
Ethanol (CAS 64-17-5)	TWA	1000 mg/m <sup>3</sup>
Methanol (CAS 67-56-1)	TWA	260 mg/m <sup>3</sup> 200 ppm
	STEL	150 mg/m <sup>3</sup>
N-Butyl Alcohol (CAS 71-36-3)	TWA	100 mg/m <sup>3</sup>
	STEL	2 mg/m <sup>3</sup>
Phosphoric Acid (CAS 7664-38-2)	TWA	1 mg/m <sup>3</sup>

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	MAC	83 mg/m <sup>3</sup>

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

Components	Type	Value
		20 ppm
	STEL	208 mg/m3
Ethanol (CAS 64-17-5)	MAC	50 ppm 1900 mg/m3
Methanol (CAS 67-56-1)	MAC	1000 ppm 260 mg/m3
N-Butyl Alcohol (CAS 71-36-3)	STEL	200 ppm 154 mg/m3
Phosporic Acid (CAS 7664-38-2)	MAC	50 ppm 1 mg/m3
	STEL	2 mg/m3

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

Components	Type	Value
N-Butyl Alcohol (CAS 71-36-3)	TWA	150 mg/m3
		50 ppm

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	Ceiling	200 mg/m3
	TWA	80 mg/m3
Ethanol (CAS 64-17-5)	Ceiling	3000 mg/m3
	TWA	1000 mg/m3
Methanol (CAS 67-56-1)	Ceiling	1000 mg/m3
	TWA	250 mg/m3
N-Butyl Alcohol (CAS 71-36-3)	Ceiling	600 mg/m3
	TWA	300 mg/m3
Phosporic Acid (CAS 7664-38-2)	Ceiling	2 mg/m3
	TWA	1 mg/m3

**Denmark. Exposure Limit Values**

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	TLV	83 mg/m3
		20 ppm
Ethanol (CAS 64-17-5)	TLV	1900 mg/m3
		1000 ppm
Methanol (CAS 67-56-1)	TLV	260 mg/m3
		200 ppm
N-Butyl Alcohol (CAS 71-36-3)	Ceiling	150 mg/m3
		50 ppm
Phosporic Acid (CAS 7664-38-2)	TLV	1 mg/m3

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

Components	Type	Value	Form
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3	
		50 ppm	
	TWA	83 mg/m3	
		20 ppm	
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3	
		1000 ppm	
	TWA	1000 mg/m3	
		500 ppm	
Methanol (CAS 67-56-1)	STEL	350 mg/m3	
		250 ppm	

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

Components	Type	Value	Form
	TWA	250 mg/m <sup>3</sup>	
		200 ppm	
N-Butyl Alcohol (CAS 71-36-3)	TWA	45 mg/m <sup>3</sup>	
		15 ppm	
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m <sup>3</sup>	Vapor.
	TWA	1 mg/m <sup>3</sup>	Vapor.

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

Components	Type	Value
N-Butyl Alcohol (CAS 71-36-3)	Ceiling	90 mg/m <sup>3</sup>
		30 ppm

**Finland. Workplace Exposure Limits**

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	210 mg/m <sup>3</sup>
		50 ppm
	TWA	80 mg/m <sup>3</sup>
		20 ppm
Ethanol (CAS 64-17-5)	STEL	2500 mg/m <sup>3</sup>
		1300 ppm
	TWA	1900 mg/m <sup>3</sup>
		1000 ppm
Methanol (CAS 67-56-1)	STEL	330 mg/m <sup>3</sup>
		250 ppm
	TWA	270 mg/m <sup>3</sup>
		200 ppm
N-Butyl Alcohol (CAS 71-36-3)	STEL	230 mg/m <sup>3</sup>
		75 ppm
	TWA	150 mg/m <sup>3</sup>
		50 ppm
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m <sup>3</sup>
	TWA	1 mg/m <sup>3</sup>

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	VLE	208 mg/m <sup>3</sup>
		50 ppm
	VME	83 mg/m <sup>3</sup>
		20 ppm
Ethanol (CAS 64-17-5)	VLE	9500 mg/m <sup>3</sup>
		5000 ppm
	VME	1900 mg/m <sup>3</sup>
		1000 ppm
Methanol (CAS 67-56-1)	VLE	1300 mg/m <sup>3</sup>
		1000 ppm
	VME	260 mg/m <sup>3</sup>
		200 ppm
N-Butyl Alcohol (CAS 71-36-3)	VLE	150 mg/m <sup>3</sup>
		50 ppm
Phosphoric Acid (CAS 7664-38-2)	VLE	2 mg/m <sup>3</sup>
		0,5 ppm
	VME	1 mg/m <sup>3</sup>
		0,2 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	Form
4-Methyl-2-pentanone (CAS 108-10-1)	TWA	83 mg/m3	
Ethanol (CAS 64-17-5)	TWA	20 ppm 960 mg/m3	
Methanol (CAS 67-56-1)	TWA	500 ppm 270 mg/m3	
N-Butyl Alcohol (CAS 71-36-3)	TWA	200 ppm 310 mg/m3	
Phosporic Acid (CAS 7664-38-2)	TWA	100 ppm 2 mg/m3	Inhalable fraction.

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

Components	Type	Value	Form
4-Methyl-2-pentanone (CAS 108-10-1)	AGW	83 mg/m3	
Ethanol (CAS 64-17-5)	AGW	20 ppm 960 mg/m3	
Methanol (CAS 67-56-1)	AGW	500 ppm 270 mg/m3	
N-Butyl Alcohol (CAS 71-36-3)	AGW	200 ppm 310 mg/m3	
Phosporic Acid (CAS 7664-38-2)	AGW	100 ppm 2 mg/m3	Inhalable fraction.

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	410 mg/m3
	TWA	100 ppm 410 mg/m3
Ethanol (CAS 64-17-5)	TWA	100 ppm 1900 mg/m3
Methanol (CAS 67-56-1)	STEL	1000 ppm 325 mg/m3
	TWA	250 ppm 260 mg/m3
N-Butyl Alcohol (CAS 71-36-3)	STEL	200 ppm 300 mg/m3
	TWA	100 ppm 300 mg/m3
Phosporic Acid (CAS 7664-38-2)	STEL	100 ppm 3 mg/m3
	TWA	1 mg/m3

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	83 mg/m3
Ethanol (CAS 64-17-5)	STEL	7600 mg/m3
	TWA	1900 mg/m3
Methanol (CAS 67-56-1)	TWA	260 mg/m3
N-Butyl Alcohol (CAS 71-36-3)	STEL	90 mg/m3
	TWA	45 mg/m3
Phosporic Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3



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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	50 ppm 83 mg/m3 20 ppm
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm
Methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
N-Butyl Alcohol (CAS 71-36-3)	STEL	150 mg/m3
	TWA	50 ppm 80 mg/m3 25 ppm
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

**Ireland. Occupational Exposure Limits**

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	50 ppm 83 mg/m3 20 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
N-Butyl Alcohol (CAS 71-36-3)	TWA	20 ppm
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

**Italy. Occupational Exposure Limits**

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	50 ppm 83 mg/m3 20 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
N-Butyl Alcohol (CAS 71-36-3)	TWA	20 ppm
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	50 ppm 83 mg/m3 20 ppm
Ethanol (CAS 64-17-5)	TWA	1000 mg/m3
Methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
N-Butyl Alcohol (CAS 71-36-3)	TWA	10 mg/m3
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	50 ppm 83 mg/m3 20 ppm
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3 1000 ppm
	TWA	1000 mg/m3 500 ppm
Methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
N-Butyl Alcohol (CAS 71-36-3)	Ceiling	90 mg/m3
	TWA	30 ppm 45 mg/m3 15 ppm
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	50 ppm 83 mg/m3 20 ppm
Methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

**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
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	50 ppm 83 mg/m3 20 ppm
Methanol (CAS 67-56-1)	TWA	260 mg/m3 200 ppm
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

**Netherlands. OELs (binding)**

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	104 mg/m3
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3
	TWA	260 mg/m3
Methanol (CAS 67-56-1)	TWA	133 mg/m3
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TLV	50 ppm 83 mg/m3

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value
Ethanol (CAS 64-17-5)	TLV	20 ppm
		950 mg/m3
Methanol (CAS 67-56-1)	TLV	500 ppm
		130 mg/m3
N-Butyl Alcohol (CAS 71-36-3)	Ceiling	100 ppm
		75 mg/m3
Phosphoric Acid (CAS 7664-38-2)	TLV	25 ppm
		1 mg/m3

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 mg/m3
		TWA
Ethanol (CAS 64-17-5)	TWA	83 mg/m3
		1900 mg/m3
Methanol (CAS 67-56-1)	STEL	300 mg/m3
		TWA
N-Butyl Alcohol (CAS 71-36-3)	STEL	100 mg/m3
		150 mg/m3
Phosphoric Acid (CAS 7664-38-2)	TWA	50 mg/m3
		STEL
	TWA	2 mg/m3
	TWA	1 mg/m3

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
		TWA
Methanol (CAS 67-56-1)	TWA	50 ppm
		83 mg/m3
Phosphoric Acid (CAS 7664-38-2)	STEL	20 ppm
		260 mg/m3
		200 ppm
		2 mg/m3
	TWA	1 mg/m3

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	75 ppm
		TWA
Ethanol (CAS 64-17-5)	TWA	50 ppm
		1000 ppm
Methanol (CAS 67-56-1)	STEL	250 ppm
		TWA
N-Butyl Alcohol (CAS 71-36-3)	TWA	200 ppm
		20 ppm
Phosphoric Acid (CAS 7664-38-2)	STEL	3 mg/m3
		TWA
		1 mg/m3

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
		TWA
Ethanol (CAS 64-17-5)	STEL	50 ppm
		200 mg/m3
		20 ppm
		9500 mg/m3
		5000 ppm
	TWA	1900 mg/m3
		1000 ppm
Methanol (CAS 67-56-1)	STEL	5 ppm

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

Components	Type	Value
N-Butyl Alcohol (CAS 71-36-3)	TWA	260 mg/m3 200 ppm 200 mg/m3
	STEL	
	TWA	66 ppm 100 mg/m3
Phosphoric Acid (CAS 7664-38-2)	STEL	33 ppm 0,5 mg/m3
	TWA	0,2 mg/m3

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	166 mg/m3
	TWA	40 ppm 83 mg/m3
Ethanol (CAS 64-17-5)	STEL	20 ppm 1920 mg/m3
	TWA	1000 ppm 960 mg/m3
Methanol (CAS 67-56-1)	TWA	500 ppm 260 mg/m3
	TWA	200 ppm 310 mg/m3
N-Butyl Alcohol (CAS 71-36-3)	TWA	100 ppm
	STEL	2 mg/m3
Phosphoric Acid (CAS 7664-38-2)	TWA	1 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
4-Methyl-2-pentanone (CAS 108-10-1)	TWA	83 mg/m3
	TWA	20 ppm 1900 mg/m3
Ethanol (CAS 64-17-5)	TWA	1000 ppm 260 mg/m3
	TWA	200 ppm 310 mg/m3
N-Butyl Alcohol (CAS 71-36-3)	TWA	100 ppm
	TWA	1 mg/m3

**Spain. Occupational Exposure Limits**

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
	TWA	50 ppm 83 mg/m3
Ethanol (CAS 64-17-5)	STEL	20 ppm 1910 mg/m3
	TWA	1000 ppm 266 mg/m3
Methanol (CAS 67-56-1)	TWA	200 ppm 154 mg/m3
	STEL	50 ppm
N-Butyl Alcohol (CAS 71-36-3)	TWA	61 mg/m3
	STEL	20 ppm
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m3

**Spain. Occupational Exposure Limits**

Components	Type	Value
	TWA	1 mg/m3

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	200 mg/m3
		50 ppm
	TWA	100 mg/m3
		25 ppm
Ethanol (CAS 64-17-5)	STEL	1900 mg/m3
		1000 ppm
	TWA	1000 mg/m3
		500 ppm
Methanol (CAS 67-56-1)	STEL	350 mg/m3
		250 ppm
	TWA	250 mg/m3
		200 ppm
N-Butyl Alcohol (CAS 71-36-3)	Ceiling	90 mg/m3
		30 ppm
	TWA	45 mg/m3
		15 ppm
Phosporic Acid (CAS 7664-38-2)	STEL	3 mg/m3
	TWA	1 mg/m3

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	164 mg/m3
		40 ppm
	TWA	82 mg/m3
		20 ppm
Ethanol (CAS 64-17-5)	STEL	1920 mg/m3
		1000 ppm
	TWA	960 mg/m3
		500 ppm
Methanol (CAS 67-56-1)	STEL	1040 mg/m3
		800 ppm
	TWA	260 mg/m3
		200 ppm
N-Butyl Alcohol (CAS 71-36-3)	STEL	150 mg/m3
		50 ppm
	TWA	150 mg/m3
		50 ppm
Phosporic Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	416 mg/m3
		100 ppm
	TWA	208 mg/m3
		50 ppm
Ethanol (CAS 64-17-5)	TWA	1920 mg/m3
		1000 ppm
Methanol (CAS 67-56-1)	STEL	333 mg/m3
		250 ppm
	TWA	266 mg/m3
		200 ppm

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

Components	Type	Value
N-Butyl Alcohol (CAS 71-36-3)	STEL	154 mg/m3
		50 ppm
Phosphoric Acid (CAS 7664-38-2)	STEL	2 mg/m3
	TWA	1 mg/m3

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

Components	Type	Value
4-Methyl-2-pentanone (CAS 108-10-1)	STEL	208 mg/m3
		50 ppm
	TWA	83 mg/m3
Methanol (CAS 67-56-1)	TWA	20 ppm
		260 mg/m3
Phosphoric Acid (CAS 7664-38-2)	STEL	200 ppm
	TWA	2 mg/m3
		1 mg/m3

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

Components	Value	Determinant	Specimen	Sampling time
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
	0,47 mmol/l	Methanol	Urine	*

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

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

Components	Value	Determinant	Specimen	Sampling time
4-Methyl-2-pentanone (CAS 108-10-1)	2 mg/l	Méthylisobutylc étone	Urine	*
Methanol (CAS 67-56-1)	15 mg/l	Méthanol	Urine	*

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

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

Components	Value	Determinant	Specimen	Sampling time
4-Methyl-2-pentanone (CAS 108-10-1)	3,5 mg/l	4-Methylpentan -2-on	Urine	*
Methanol (CAS 67-56-1)	30 mg/l	Methanol	Urine	*
N-Butyl Alcohol (CAS 71-36-3)	2 mg/g	1-Butanol (nach Hydrolyse)	Creatinine in urine	*
	10 mg/g	1-Butanol (nach Hydrolyse)	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	*
Methanol (CAS 67-56-1)	20 mg/g	Methanol	Creatinine in urine	*
	30 mg/l	Methanol	Urine	*
N-Butyl Alcohol (CAS 71-36-3)	2 mg/g	N-Butyl Alcohol	Creatinine in urine	*
	10 mg/g	N-Butyl Alcohol	Creatinine in 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
4-Methyl-2-pentanone (CAS 108-10-1)	1 mg/l	Metilisobutilcetona	Urine	*
Methanol (CAS 67-56-1)	15 mg/l	Metanol	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
4-Methyl-2-pentanone (CAS 108-10-1)	2 mg/l	4-Methylpentan-2-on	Urine	*
Methanol (CAS 67-56-1)	30 mg/l	Methanol	Urine	*

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

**UK. EH40 Biological Monitoring Guidance Values (BMGVs)**

Components	Value	Determinant	Specimen	Sampling time
4-Methyl-2-pentanone (CAS 108-10-1)	20 umol/l	4-Methylpentan-2-one	Urine	*

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

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no-effect level (DNEL)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**Exposure guidelines****EU Exposure Limit Values: Skin designation**

Methanol (CAS 67-56-1) Can be absorbed through the skin.

**8.2. Exposure controls**

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

**Individual protection measures, such as personal protective equipment**

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

**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield.

**Skin protection**

**- Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**- Other** Wear appropriate chemical resistant clothing.

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

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

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

**Environmental exposure controls** Inform appropriate managerial or supervisory personnel of all environmental releases.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

**Physical state** Liquid.  
**Form** Liquid.  
**Colour** Colorless to. Yellow

**Odour** Solvent.

**Odour threshold** Not available.

<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	-114,1 °C (-173,38 °F) estimated
<b>Initial boiling point and boiling range</b>	78,5 °C (173,3 °F) estimated
<b>Flash point</b>	12,8 °C (55,0 °F) estimated
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	1,5 % estimated
<b>Flammability limit - upper (%)</b>	11,3 % estimated
<b>Vapour pressure</b>	71,63 hPa estimated
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Solubility (other)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	343,33 °C (650 °F) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidizing properties</b>	Not available.

## 9.2. Other information

<b>Density</b>	6,68 lbs/gal
<b>Percent volatile</b>	98,61 %
<b>Specific gravity</b>	0,8
<b>VOC</b>	6,6 lb/gal Material 6,6 lb/gal Regulatory 788 g/l Material 789 g/l Regulatory

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Strong oxidising agents. Alkali metals.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Information on likely routes of exposure</b>	
<b>Inhalation</b>	Harmful if inhaled. May cause damage to organs by inhalation.
<b>Skin contact</b>	Harmful in contact with skin.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Harmful if swallowed.
<b>Symptoms</b>	Headache. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.
<b>11.1. Information on toxicological effects</b>	
<b>Acute toxicity</b>	Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed.



Components	Species	Test results
4-Methyl-2-pentanone (CAS 108-10-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 16000 mg/kg
<b>Inhalation</b>		
LC50	Rat	8,2 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	2080 mg/kg
Ethanol (CAS 64-17-5)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	20000 ppm, 10 Hours
<b>Oral</b>		
LD50	Guinea pig	5,6 g/kg
	Mouse	3450 mg/kg
	Rat	6,2 g/kg
Methanol (CAS 67-56-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	15800 mg/kg
<b>Inhalation</b>		
LC50	Rat	64000 ppm, 4 Hours
		87,5 mg/l, 6 Hours
<b>Oral</b>		
LD50	Monkey	2 g/kg
	Mouse	7300 mg/kg
	Rabbit	14,4 g/kg
	Rat	5628 mg/kg
N-Butyl Alcohol (CAS 71-36-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	3400 mg/kg
<b>Inhalation</b>		
LC50	Rat	8000 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	790 mg/kg
Phosphoric Acid (CAS 7664-38-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	2740 mg/kg
<b>Oral</b>		
LD50	Rat	1530 mg/kg

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

<b>Skin corrosion/irritation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.
<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Skin sensitisation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Carcinogenicity</b>	Suspected of causing cancer.

## IARC Monographs. Overall Evaluation of Carcinogenicity

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

2B Possibly carcinogenic to humans.

<b>Reproductive toxicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Specific target organ toxicity - single exposure</b>	May cause damage to organs.
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.
<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.
<b>Mixture versus substance information</b>	No information available.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** Toxic to aquatic life with long lasting effects.

Components	Species	Test results
4-Methyl-2-pentanone (CAS 108-10-1)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) 492 - 593 mg/l, 96 hours
Ethanol (CAS 64-17-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 7,7 - 11,2 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) > 100 mg/l, 96 hours
Methanol (CAS 67-56-1)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) > 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) > 100 mg/l, 96 hours
N-Butyl Alcohol (CAS 71-36-3)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 1897 - 2072 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 100 - 500 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)

4-Methyl-2-pentanone	1,31
Ethanol	-0,31
Methanol	-0,77
N-Butyl Alcohol	0,88

**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

<b>Residual waste</b>	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).
<b>Contaminated packaging</b>	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.
<b>EU waste code</b>	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** Yes  
**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** Yes  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

### ADN

**14.1. UN number** UN1263  
**14.2. UN proper shipping name** Paint, Paint Related Material  
**14.3. Transport hazard class(es)**  
    **Class** 3  
    **Subsidiary risk** -  
    **Label(s)** 3  
**14.4. Packing group** II  
**14.5. Environmental hazards** Yes  
**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** Yes  
**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 Yes

EmS F-E, S-E

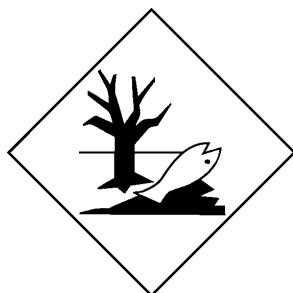
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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

ADN; ADR; IATA; IMDG; RID



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

## 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

4-Methyl-2-pentanone (CAS 108-10-1)  
Ethanol (CAS 64-17-5)  
Methanol (CAS 67-56-1)

### 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

4-Methyl-2-pentanone (CAS 108-10-1)  
Ethanol (CAS 64-17-5)  
Methanol (CAS 67-56-1)  
N-Butyl Alcohol (CAS 71-36-3)

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

4-Methyl-2-pentanone (CAS 108-10-1)  
Ethanol (CAS 64-17-5)  
Methanol (CAS 67-56-1)  
N-Butyl Alcohol (CAS 71-36-3)  
Phosphoric Acid (CAS 7664-38-2)

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

Methanol (CAS 67-56-1)  
Phosphoric Acid (CAS 7664-38-2)

## Other regulations

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

## National regulations

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

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

### List of abbreviations

Not available.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R10 Flammable.  
R11 Highly flammable.  
R20 Harmful by inhalation.  
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R22 Harmful if swallowed.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R34 Causes burns.  
R36 Irritating to eyes.  
R36/37 Irritating to eyes and respiratory system.  
R37/38 Irritating to respiratory system and skin.  
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
R41 Risk of serious damage to eyes.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.  
R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

## Revision information

None.

## Training information

Follow training instructions when handling this material.

**Disclaimer**

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