

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

STEISRBBIG- 100.-

FIREPROOF INDUSTRIAL ENAMEL

Version 1 Date of compilation: 03/05/2016

Version 4 (replaces version 3)

Revision date: 21/10/2020

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: 100.- ESMALTE INDUSTRIAL S/R BRILLANTE IGNÍFUGO
Product Code: STEISRBBIG

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

Not available.

1.3 Details of the supplier of the safety data sheet.

Company: **PINTURAS AYELENSES, S.L.**
Address: POLÍGONO SAN JOSÉ, S/N
City: AIELO DE MALFERIT
Province: VALENCIA
Telephone: 962360292
Fax: 962360601
E-mail: info@pinturaspinay.com
Web: www.pinturaspinay.com

1.4 Emergency telephone number: 962360292 (Only available during office hours; Monday-Friday; 08:00-18:00)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

In accordance with Regulation (EU) No 1272/2008:

Carc. 2 : Suspected of causing cancer.
Flam. Liq. 3 : Flammable liquid and vapour.
Skin Irrit. 2 : Causes skin irritation.

2.2 Label elements.

Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:



Signal Word:

Warning

H statements:

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H351 Suspected of causing cancer.

P statements:

P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use... to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to ...

EUH statements:

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EUH208	Contains 2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime. May produce an allergic reaction.
EUH208	Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.
EUH208	Contains Fatty acids, C18-unsatd., trimers, compds. with oleylamine. May produce an allergic reaction.
EUH208	Contains Fatty acids, C14-18 and C16-18-unsatd., maleated. May produce an allergic reaction.
EUH208	Contains fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction.

Contains:
antimony trioxide

2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not Applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	specific concentration limit
Index No: 601-022-00-9 CAS No: 1330-20-7 EC No: 215-535-7 Registration No: 01-2119488216-32-XXXX	[1] xylene	10 - 25 %	Acute Tox. 4 *, H312 - Acute Tox. 4 *, H332 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315	-
CAS No: 13463-67-7 EC No: 236-675-5 Registration No: 01-2119489379-17-XXXX	[1] Titanium dioxide	10 - 25 %	-	-
Index No: 601-023-00-4 CAS No: 100-41-4 EC No: 202-849-4 Registration No: 01-2119489370-35-XXXX	[1] ethylbenzene	1 - 10 %	Acute Tox. 4 *, H332 - Asp. Tox. 1, H304 - Flam. Liq. 2, H225 - STOT RE 2, H373(órganos de audición)	-
CAS No: 1163-19-5 EC No: 214-604-9 Registration No: 01-2119472302-47-XXXX	[4] bis(pentabromophenyl) ether	2.5 - 10 %	-	-
Index No: 607-022-00-5 CAS No: 141-78-6 EC No: 205-500-4 Registration No: 01-2119475103-46-XXXX	[1] ethyl acetate	1 - 10 %	Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336	-
Index No: 607-025-00-1 CAS No: 123-86-4 EC No: 204-658-1 Registration No: 01-2119485493-29-XXXX	[1] n-butyl acetate	1 - 20 %	Flam. Liq. 3, H226 - STOT SE 3, H336	-

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Index No: 051-005-00-X CAS No: 1309-64-4 EC No: 215-175-0 Registration No: 01-2119475613-35-XXXX	[1] antimony trioxide	1 - 2.5 %	Carc. 2, H351	-
Index No: 616-014-00-0 CAS No: 96-29-7 EC No: 202-496-6 Registration No: 01-2119539477-28-XXXX	[1] 2-butanone oxime, ethyl methyl ketoxime, ethyl methyl ketone oxime	0.1 - 1 %	Acute Tox. 4 *, H312 - Carc. 2, H351 - Eye Dam. 1, H318 - Skin Sens. 1, H317	-
Index No: 606-001-00-8 CAS No: 67-64-1 EC No: 200-662-2 Registration No: 01-2119471330-49-XXXX	[1] acetone, propan-2-one, propanone	0 - 10 %	Eye Irrit. 2, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336	-
Index No: 603-004-00-6 CAS No: 71-36-3 EC No: 200-751-6 Registration No: 01-2119484630-38-XXXX	[1] butan-1-ol	0 - 1 %	Acute Tox. 4 *, H302 - Eye Dam. 1, H318 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - STOT SE 3, H335 - STOT SE 3, H336	-
CAS No: 85711-46-2 EC No: 288-306-2	Fatty acids, C14-18 and C16-18-unsatd., maleated	0.1 - 1 %	Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
CAS No: 22464-99-9 EC No: 245-018-1	[1] 2-ethylhexanoic acid, zirconium salt	0.1 - 3 %	Repr. 2, H361	-
CAS No: 147900-93-4	Fatty acids, C18-unsatd., trimers, compds. with oleylamine	0.1 - 1 %	Acute Tox. 4, H302 - Eye Irrit. 2, H319 - Skin Irrit. 2, H315 - Skin Sens. 1, H317 - STOT SE 3, H335	-
Index No: 606-005-00-X CAS No: 108-83-8 EC No: 203-620-1 Registration No: 01-2119474441-41-XXXX	[1] 2,6-dimethylheptan-4-one, di-isobutyl ketone	0 - 10 %	Flam. Liq. 3, H226 - STOT SE 3, H335	STOT SE 3, H335: C ≥ 10 %
CAS No: 136-52-7 EC No: 205-250-6 Registration No: 01-2119524678-29-XXXX	cobalt bis(2-ethylhexanoate)	0.1 - 1 %	Aquatic Acute 1, H400 - Aquatic Chronic 3, H412 - Repr. 2, H361 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	-
Index No: 604-006-00-X CAS No: 1300-71-6 EC No: 215-089-3	xylenol	0.1 - 1 %	Acute Tox. 3 *, H311 - Acute Tox. 3 *, H301 - Aquatic Chronic 2, H411 - Skin Corr. 1B, H314	-

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CAS No: 85711-55-3 EC No: 288-315-1	fatty acids, tall-oil, compds. with oleylamine	0.1 - 1 %	Eye Dam. 1, H318 - Skin Sens. 1, H317 - STOT RE 2, H373	-
Index No: 603-108-00-1 CAS No: 78-83-1 EC No: 201-148-0 Registration No: 01-2119484609-23-XXXX	[1] 2-methylpropan-1-ol, iso-butanol	0 - 1 %	Eye Dam. 1, H318 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - STOT SE 3, H335 - STOT SE 3, H336	-
CAS No: 111-84-2 EC No: 203-913-4 Registration No: 01-2119463259-31-XXXX	[1] Nonane	0 - 0.25 %	Aquatic Chronic 1, H410 - Asp. Tox. 1, H304 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - STOT SE 3, H336	-
Index No: 607-089-00-0 CAS No: 79-09-4 EC No: 201-176-3 Registration No: 01-2119486971-24-XXXX	[1] propionic acid	0 - 10 %	Skin Corr. 1B, H314	Skin Corr. 1B, H314: C ≥ 25 % Skin Irrit. 2, H315: 10 % ≤ C < 25 % Eye Irrit. 2, H319: 10 % ≤ C < 25 % STOT SE 3, H335: C ≥ 10 %

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

*, ***, See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

[1] Substance with a Community workplace exposure limit (see section 8.1).

[4] Substance included in the list established under Article 59, paragraph 1, REACH (Candidate or subject to authorization).

SECTION 4: FIRST AID MEASURES.

IRRITANT MIXTURE. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed.

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate. Long-term chronic exposure may result in injury to certain organs or tissues.

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4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Keep the person comfortable. Turn him/her over to the left side and stay there while waiting for medical care.

SECTION 5: FIREFIGHTING MEASURES.

Flammable product, the necessary prevention measures should be taken in order to avoid risks, In case of fire, the following measures are recommended:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture.

Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:

- Flammable vapors or gases.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Follow the instructions given in the emergency or fire evacuation plan or plans if available.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

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The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s).

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m ³
xylene	1330-20-7	European Union [1]	Eight hours	50 (skin)	221 (skin)
			Short term	100 (skin)	442 (skin)
		United Kingdom [2]	Eight hours	50	220
			Short term	100	441
		Éire [3]	Eight hours	50	221
			Short term	100	442
		United States [4] (Cal/OSHA)	Eight hours	100	
			Short term	150 (Ceiling) 300	
		United States [5] (NIOSH)	Eight hours	100	
			Short term	150	
United States [6] (OSHA)	Eight hours	100	435		
	Short term				
Titanium dioxide	13463-67-7	United Kingdom [2]	Eight hours		10 (total inhalable)
			Short term		
		Éire [3]	Eight hours		10 (Inhalable dust) 4 (Respirable dust)
			Short term		
ethylbenzene	100-41-4	European Union [1]	Eight hours	100 (skin)	442 (skin)
			Short term	200 (skin)	884 (skin)
		United Kingdom [2]	Eight hours	100	441
			Short term	125	552
		Éire [3]	Eight hours	100	442
			Short term	200	884
		United States [4] (Cal/OSHA)	Eight hours	5	
			Short term	30	
		United States [5] (NIOSH)	Eight hours	100	
			Short term	125	

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		United States [6] (OSHA)	Eight hours	100	435
			Short term		
ethyl acetate	141-78-6	European Union [1]	Eight hours	200	734
			Short term	400	1468
		United Kingdom [2]	Eight hours	200	
			Short term	400	
		Éire [3]	Eight hours	200	734
			Short term	400	1468
		United States [4] (Cal/OSHA)	Eight hours	400	
			Short term		
United States [5] (NIOSH)	Eight hours	400			
	Short term				
United States [6] (OSHA)	Eight hours	400	1400		
	Short term				
n-butyl acetate	123-86-4	United Kingdom [2]	Eight hours	150	724
			Short term	200	966
		Éire [3]	Eight hours	150	710
			Short term	200	950
		United States [4] (Cal/OSHA)	Eight hours	150	
			Short term	200	
		United States [5] (NIOSH)	Eight hours	150	
			Short term	200	
United States [6] (OSHA)	Eight hours	150	710		
	Short term				
antimony trioxide	1309-64-4	United States [4] (Cal/OSHA)	Eight hours		0.5 (as Sb)
			Short term		
		United States [5] (NIOSH)	Eight hours		0.5 (as Sb)
			Short term		
United States [6] (OSHA)	Eight hours		0.5 (as Sb)		
	Short term				
2-butanone oxime, ethyl methyl ketoxime, ethyl methyl ketone oxime	96-29-7	Éire [3]	Eight hours	3	10
			Short term	10	33
acetone, propan-2-one, propanone	67-64-1	European Union [1]	Eight hours	500	1210
			Short term		
		United Kingdom [2]	Eight hours	500	1210
			Short term	1500	3620
		Éire [3]	Eight hours	500	1210
			Short term		
		United States [4] (Cal/OSHA)	Eight hours	500	
			Short term	750 (Ceiling) 3000	
United States [5] (NIOSH)	Eight hours	250			
	Short term				
United States [6] (OSHA)	Eight hours	1000	2400		
	Short term				
butan-1-ol	71-36-3	United Kingdom [2]	Eight hours		
			Short term	50	154
		Éire [3]	Eight hours	20	
			Short term		
		United States [4] (Cal/OSHA)	Eight hours	(Ceiling) 50	
			Short term		
		United States [5] (NIOSH)	Eight hours	(Ceiling) 50	
			Short term		
United States [6] (OSHA)	Eight hours	100	300		
	Short term				
2-ethylhexanoic acid, zirconium salt	22464-99-9	United States [4] (Cal/OSHA)	Eight hours		5 (as Zr)
			Short term		10 (as Zr)
		United States [5] (NIOSH)	Eight hours		5 (as Zr)
			Short term		10 (as Zr)

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		United States [6] (OSHA)	Eight hours		5 (as Zr)
			Short term		
2,6-dimethylheptan-4-one, di-isobutyl ketone	108-83-8	United Kingdom [2]	Eight hours	25	148
			Short term		
		Éire [3]	Eight hours	25	150
			Short term		
		United States [4] (Cal/OSHA)	Eight hours	25	
			Short term		
		United States [5] (NIOSH)	Eight hours	25	
			Short term		
United States [6] (OSHA)	Eight hours	50	290		
	Short term				
2-methylpropan-1-ol, iso-butanol	78-83-1	United Kingdom [2]	Eight hours	50	154
			Short term	75	231
		Éire [3]	Eight hours	50	150
			Short term	75	225
		United States [4] (Cal/OSHA)	Eight hours	50	
			Short term		
		United States [5] (NIOSH)	Eight hours	50	
			Short term		
United States [6] (OSHA)	Eight hours	100	300		
	Short term				
Nonane	111-84-2	Éire [3]	Eight hours	200	1050
			Short term		
propionic acid	79-09-4	European Union [1]	Eight hours	10	31
			Short term	20	62
		United Kingdom [2]	Eight hours	10	31
			Short term	15	46
		Éire [3]	Eight hours	10	31
			Short term	20	62
2-ethylhexanoic acid	149-57-5	Éire [3]	Eight hours		5
			Short term		

[1] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

[2] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

[3] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

[4] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

[5] According Compendium of Policy Documents and Statements adopted by National Institute for Occupational Safety and Health (NIOSH).

[6] According Occupational Health and Safety Standards and US Code of Federal Regulations adopted by US Occupational Safety and Health Administration (OSHA).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
xylene CAS No: 1330-20-7 EC No: 215-535-7	DNEL (Workers)	Inhalation, Long-term, Systemic effects	77 (mg/m ³)
Titanium dioxide CAS No: 13463-67-7 EC No: 236-675-5	DNEL (Workers)	Inhalation, Long-term, Local effects	10 (mg/m ³)
ethylbenzene CAS No: 100-41-4 EC No: 202-849-4	DNEL (Workers)	Inhalation, Long-term, Systemic effects	77 (mg/m ³)
bis(pentabromophenyl) ether CAS No: 1163-19-5 EC No: 214-604-9	DNEL (Workers)	Inhalation, Long-term, Systemic effects	6 (mg/m ³)
ethyl acetate CAS No: 141-78-6	DNEL (Workers)	Inhalation, Long-term, Systemic effects	734 (mg/m ³)

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EC No: 205-500-4	DNEL (Workers)	Inhalation, Long-term, Local effects	734 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Local effects	367 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Local effects	1468 (mg/m ³)
	DNEL (General population)	Inhalation, Acute, Local effects	734 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	63 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	37 (mg/kg bw/day)
n-butyl acetate CAS No: 123-86-4 EC No: 204-658-1	DNEL (Workers)	Inhalation, Long-term, Systemic effects	480 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Systemic effects	102,34 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Systemic effects	960 (mg/m ³)
	DNEL (General population)	Inhalation, Acute, Systemic effects	859,7 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Local effects	480 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Local effects	102,34 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Local effects	960 (mg/m ³)
	DNEL (General population)	Inhalation, Acute, Local effects	859,7 (mg/m ³)
	DNEL (General population)	Oral, Long-term, Systemic effects	3,4 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	3,4 (mg/kg bw/day)
antimony trioxide CAS No: 1309-64-4 EC No: 215-175-0	DNEL (Workers)	Inhalation, Long-term, Local effects	0,5 (mg/m ³)
2-butanone oxime, ethyl methyl ketoxime, ethyl methyl ketone oxime CAS No: 96-29-7 EC No: 202-496-6	DNEL (Workers)	Inhalation, Long-term, Local effects	3,33 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	9 (mg/m ³)
acetone, propan-2-one, propanone CAS No: 67-64-1 EC No: 200-662-2	DNEL (Workers)	Inhalation, Long-term, Systemic effects	1210 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Systemic effects	200 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Local effects	2420 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	186 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	62 (mg/kg bw/day)
	DNEL (General population)	Oral, Long-term, Systemic effects	62 (mg/kg bw/day)
butan-1-ol CAS No: 71-36-3 EC No: 200-751-6	DNEL (Workers)	Inhalation, Long-term, Local effects	310 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Local effects	55 (mg/m ³)
	DNEL (General population)	Oral, Long-term, Systemic effects	3,125 (mg/kg bw/day)
2,6-dimethylheptan-4-one, di-isobutyl ketone CAS No: 108-83-8 EC No: 203-620-1	DNEL (Workers)	Inhalation, Long-term, Local effects	290 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	479 (mg/m ³)

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cobalt bis(2-ethylhexanoate) CAS No: 136-52-7 EC No: 205-250-6	DNEL (Workers)	Inhalation, Long-term, Local effects	0,2351 (mg/m ³)
2-methylpropan-1-ol, iso-butanol CAS No: 78-83-1 EC No: 201-148-0	DNEL (Workers)	Inhalation, Long-term, Local effects	310 (mg/m ³)
	DNEL (General population)	Inhalation, Long-term, Local effects	55 (mg/m ³)
Nonane CAS No: 111-84-2 EC No: 203-913-4	DNEL (Workers)	Inhalation, Long-term, Systemic effects	2035 (mg/m ³)
propionic acid CAS No: 79-09-4 EC No: 201-176-3	DNEL (Workers)	Inhalation, Long-term, Local effects	31 (mg/m ³)
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	31 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Systemic effects	62 (mg/m ³)
	DNEL (Workers)	Inhalation, Acute, Local effects	62 (mg/m ³)
	DNEL (Workers)	Dermal, Long-term, Systemic effects	132 (mg/kg bw/day)
	DNEL (Workers)	Dermal, Long-term, Local effects	260 (µg/cm ²)
2-ethylhexanoic acid CAS No: 149-57-5 EC No: 205-743-6	DNEL (Workers)	Inhalation, Long-term, Systemic effects	32 (mg/m ³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
ethyl acetate CAS No: 141-78-6 EC No: 205-500-4	aqua (freshwater)	0,24 (mg/L)
	aqua (marine water)	0,024 (mg/L)
	aqua (intermittent releases)	1,65 (mg/L)
	sediment (freshwater)	1,15 (mg/L)
	sediment (marine water)	0,115 (mg/L)
	Soil	0,148 (mg/kg soil dw)
	STP	650 (mg/L)
	oral (Hazard for predators)	0,2 (g/kg food)
n-butyl acetate CAS No: 123-86-4 EC No: 204-658-1	aqua (freshwater)	0,18 (mg/l)
	aqua (marine water)	0,018 (mg/l)
	aqua (intermittent releases)	0,36 (mg/l)
	STP	35,6 (mg/l)
	sediment (freshwater)	0,981 (mg/kg sediment dw)
	sediment (marine water)	0,0981 (mg/kg sediment dw)
acetone, propan-2-one, propanone CAS No: 67-64-1 EC No: 200-662-2	aqua (freshwater)	10,6 (mg/L)
	aqua (marine water)	1,06 (mg/L)
	aqua (intermittent releases)	21 (mg/L)
	STP	100 (mg/L)
	sediment (freshwater)	30,04 (mg/kg sediment dw)
	sediment (marine water)	3,04 (mg/kg sediment dw)
	soil	29,5 (mg/kg soil dw)
butan-1-ol	aqua (freshwater)	0,082 (mg/L)

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CAS No: 71-36-3 EC No: 200-751-6	aqua (marine water)	0,0082 (mg/L)
	aqua (intermittent releases)	2,25 (mg/L)
	STP	2476 (mg/L)
	sediment (freshwater)	0,178 (mg/kg sediment dw)
	sediment (marine water)	0,0178 (mg/kg sediment dw)
	soil	0,015 (mg/kg soil dw)
2-methylpropan-1-ol, iso-butanol CAS No: 78-83-1 EC No: 201-148-0	aqua (freshwater)	0,4 (mg/L)
	aqua (marine water)	0,04 (mg/L)
	aqua (intermittent releases)	11 (mg/L)
	STP	10 (mg/L)
	sediment (freshwater)	1,52 (mg/kg sediment dw)
	sediment (marine water)	0,152 (mg/kg sediment dw)
propionic acid CAS No: 79-09-4 EC No: 201-176-3	aqua (freshwater)	0,5 (mg/L)
	aqua (marine water)	0,05 (mg/L)
	aqua (intermittent releases)	5 (mg/L)
	STP	5 (mg/L)
	sediment (freshwater)	1,86 (mg/kg sediment dw)
	sediment (marine water)	0,186 (mg/kg sediment dw)
	soil	0,1258 (mg/kg soil dw)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
Uses:	
Breathing protection:	
PPE:	Filter mask for protection against gases and particles.
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.
CEN standards:	EN 136, EN 140, EN 405
Maintenance:	Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.
Observations:	Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer.
Filter Type needed:	A2
Hand protection:	
PPE:	Protective gloves against chemicals.
Characteristics:	«CE» marking, category III.
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.



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Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.				
Material:	PVC (polyvinyl chloride)	Breakthrough time (min.):	> 480	Material thickness (mm):	0,35
Eye protection:					
PPE:	Protective goggles with built-in frame.				
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.				
CEN standards:	EN 165, EN 166, EN 167, EN 168				
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.				
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.				
Skin protection:					
PPE:	Anti-static protective clothing.				
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.				
CEN standards:	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5				
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.				
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.				
PPE:	Anti-static safety footwear.				
Characteristics:	«CE» marking, category II.				
CEN standards:	EN ISO 13287, EN ISO 20344, EN ISO 20346				
Maintenance:	The footwear should be checked regularly				
Observations:	The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths.				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour

Colour: N.A./N.A.

Odour: N.A./N.A.

Odour threshold: N.A./N.A.

pH: N.A./N.A.

Melting point: N.A./N.A.

Boiling Point: N.A./N.A.

Flash point: 28 °C

Evaporation rate: N.A./N.A.

Inflammability (solid, gas): N.A./N.A.

Lower Explosive Limit: N.A./N.A.

Upper Explosive Limit: N.A./N.A.

Vapour pressure: N.A./N.A.

Vapour density: N.A./N.A.

Relative density: 1,36-1.42

Solubility: N.A./N.A.

Liposolubility: N.A./N.A.

Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): N.A./N.A.

Auto-ignition temperature: N.A./N.A.

Decomposition temperature: N.A./N.A.

Viscosity: N.A./N.A.

Explosive properties: N.A./N.A.

Oxidizing properties: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information.

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Dropping point: N.A./N.A.
Blink: N.A./N.A.
Kinematic viscosity: N.A./N.A.
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

If the storage conditions are satisfied, does not produce dangerous reactions.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

Flammable liquid and vapour.

10.4 Conditions to avoid.

Avoid the following conditions:

- High temperature.
- Static discharge.
- Contact with incompatible materials.
- Avoid temperatures near or above the flash point. Do not heat closed containers. Avoid direct sunlight and heat, as these may cause a risk of fire.

10.5 Incompatible materials.

Avoid the following materials:

- Explosives materials.
- Toxic materials.
- Oxidizing materials.

10.6 Hazardous decomposition products.

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

SECTION 11: TOXICOLOGICAL INFORMATION.

IRRITANT MIXTURE. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

11.1 Information on toxicological effects.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
xylene	Oral	LD50	Rat	4300 mg/kg bw [1]
		[1] AMA Archives of Industrial Health. Vol. 14, Pg. 387, 1956		
CAS No: 1330-20-7 EC No: 215-535-7	Dermal	LD50	Rabbit	> 1700 mg/kg bw [1]
		[1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974		
	Inhalation	LC50	Rat	21,7 mg/l/4 h [1]
		[1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 123, 1974		
ethylbenzene	Oral	LD50	Rat	3500 mg/kg bw [1]
		[1] AMA Archives of Industrial Health. Vol. 14, Pg. 387, 1956		
	Dermal	LD50	Rabbit	15400 mg/kg bw [1]

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		[1] Food and Cosmetics Toxicology. Vol. 13, Pg. 803, 1975
CAS No: 100-41-4 EC No: 202-849-4	Inhalation	
n-butyl acetate	Oral	LD50 Rat 10800 mg/kg bw [1] [1] Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 1, Pg. 196, 1992
	Dermal	LD50 Rabbit >17600 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 7, 1974
	Inhalation	LC50 Rat 1.85 mg/l/4 h [1] [1] Inhalation Toxicology. Vol. 9, Pg. 623, 1997
CAS No: 123-86-4 EC No: 204-658-1		
acetone, propan-2-one, propanone	Oral	LD50 Rat 5800 mg/kg bw [1] [1] Journal of Toxicology and Environmental Health. Vol. 15, Pg. 609, 1985
	Dermal	
	Inhalation	
CAS No: 67-64-1 EC No: 200-662-2		
butan-1-ol	Oral	LD50 Rat 4360 mg/kg bw [1] [1] Union Carbide Corp. Bushy Run Research Center, Project Report No.14-73. Export, PA. 1951.
	Dermal	LD50 Rabbit 3402 mg/kg bw [1] [1] Union Carbide Corp. Bushy Run Research Center, Project Report No.14-73. Export, PA. 1951.
	Inhalation	LC50 Rat 7500 ppm (8 h) [1] [1] Union Carbide Corp. Bushy Run Research Center, Project Report No.14-73. Export, PA. 1951.
CAS No: 71-36-3 EC No: 200-751-6		
2-methylpropan-1-ol, iso-butanol	Oral	LD50 Rat 2830 mg/kg bw [1] [1] Christopher, S.M. November 30, 1993. "Isobutanol: Acute toxicity and irritancy testing using the rat (peroral and inhalation toxicity) and the rabbit (cutaneous and ocular tests)". Bushy Run Research Center, Union Carbide Corp. Lab. Proj. ID 92U1166
	Dermal	LD50 Rabbit 4240 mg/kg bw [1] [1] Smyth H.F. Jr. et al.: AMA Arch. Ind. Hyg. Occup. Med., 10, 61-68, (1954) as cited in IUCLID.
	Inhalation	
CAS No: 78-83-1 EC No: 201-148-0		

a) acute toxicity;

Not conclusive data for classification.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Dermal) = 5.198 mg/kg

ATE (Oral) = 66.858 mg/kg

b) skin corrosion/irritation;

Product classified:

Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation;

Based on available data, the classification criteria are not met.

d) respiratory or skin sensitisation;

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Based on available data, the classification criteria are not met.

e) germ cell mutagenicity;
Not conclusive data for classification.

f) carcinogenicity;
Product classified:
Carcinogen, Category 2: Suspected of causing cancer.

g) reproductive toxicity;
Based on available data, the classification criteria are not met.

h) STOT-single exposure;
Based on available data, the classification criteria are not met.

i) STOT-repeated exposure;
Based on available data, the classification criteria are not met.

j) aspiration hazard;
Based on available data, the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
xylene CAS No: 1330-20-7 EC No: 215-535-7	Fish	LC50	Fish	15,7 mg/l (96 h) [1] [1] Bailey, H.C., D.H.W. Liu, and H.A. Javitz 1985. Time/Toxicity Relationships in Short-Term Static, Dynamic, and Plug-Flow Bioassays. In: R.C.Bahner and D.J.Hansen (Eds.), Aquatic Toxicology and Hazard Assessment, 8th Symposium, ASTM STP 891, Philadelphia, PA :193-212
	Aquatic invertebrates	LC50	Crustacean	8,5 mg/l (48 h) [1] [1] Tatem, H.E., B.A. Cox, and J.W. Anderson 1978. The Toxicity of Oils and Petroleum Hydrocarbons to Estuarine Crustaceans. Estuar.Coast.Mar.Sci. 6(4):365-373. Tatem, H.E. 1975. The Toxicity and Physiological Effects of Oil and Petroleum Hydrocarbons on Estuarine Grass Shrimp Palaemonetes pugio (Holthuis). Ph.D.Thesis, Texas A&M University, College Station, TX :133 p
	Aquatic plants			
ethylbenzene	Fish	LC50	Fish	80 mg/l (96 h) [1] [1] Mayer, F.L.Jr., and M.R. Ellersieck 1986. Manual of Acute Toxicity: Interpretation and Data Base for 410 Chemicals and 66 Species of Freshwater Animals. Resour.Publ.No.160, U.S.Dep.Interior, Fish Wildl.Serv., Washington, DC :505 p. (USGS Data File)
	Aquatic invertebrates	LC50	Crustacean	16,2 mg/l (48 h) [1] [1] MacLean, M.M., and K.G. Doe 1989. The Comparative Toxicity of Crude and Refined Oils to Daphnia magna and Artemia. Environment Canada, EE-111, Dartmouth, Nova Scotia :64 p
	Aquatic plants	EC50	Algae	5 mg/l (72 h) [1]

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CAS No: 100-41-4	EC No: 202-849-4		[1] Galassi, S., M. Mingazzini, L. Vigano, D. Cesareo, and M.L. Tosato 1988. Approaches to Modeling Toxic Responses of Aquatic Organisms to Aromatic Hydrocarbons. <i>Ecotoxicol. Environ. Saf.</i> 16(2):158-169. Masten, L.W., R.L. Boeri, and J.D. Walker 1994. Strategies Employed to Determine the Acute Aquatic Toxicity of Ethyl Benzene, a Highly Volatile, Poorly Water-Soluble Chemical. <i>Ecotoxicol. Environ. Saf.</i> 27(3):335-348
ethyl acetate		Fish	LC50 Pimephales promelas 230 mg/l (96 h) [1] [1] US EPA method E03-05, 1984
		Aquatic invertebrates	EC50 Hydra Oligactis (Hydrozoa) 1350 mg/l (48 h) [1] [1] <i>Aquat. Toxicol.</i> 4, 73 - 82, Slooff, W. 1983
		Aquatic plants	EC50 Algae 2500 mg/l (96 h) [1] [1] Slooff, W. 1982. A Comparative Study on the Short-Term Effects of 15 Chemicals on Fresh Water Organisms of Different Tropic Levels. <i>Natl. Tech. Inf. Serv.</i> , Springfield, VA :25 p. (DUT) (ENG ABS) (NTIS/PB83-200386)
CAS No: 141-78-6	EC No: 205-500-4		
n-butyl acetate		Fish	LC50 Fish 81 mg/l (96 h) [1] [1] Wellens, H. 1982. Comparison of the Sensitivity of Brachydanio rerio and Leuciscus idus by Testing the Fish Toxicity of Chemicals and Wastewaters. <i>Z. Wasser-Abwasser-Forsch.</i> 51(2):49-52 (GER) (ENG ABS). Dawson, G.W., A.L. Jennings, D. Drozdowski, and E. Rider 1977. The Acute Toxicity of 47 Industrial Chemicals to Fresh and Saltwater Fishes. <i>J. Hazard. Mater.</i> 1(4):303-318 (OECDG Data File)
		Aquatic invertebrates	EC50 Daphnia sp. 44 mg/l (48 h) [1] [1] publication, 1959
		Aquatic plants	EC50 Desmodesmus subspicatus (reported as Scenedesmus subspicatus) 674.7 mg/l (72 h) [1] [1] Method: other: algae growth inhibition test, according to Umweltbundesamt (German Federal Environment Agency) (proposal/draft, version February 1984)
CAS No: 123-86-4	EC No: 204-658-1		
acetone, propan-2-one, propanone		Fish	LC50 Fish 8300 mg/l (96 h) [1] [1] Cairns, J.Jr., and A. Scheier 1968. A Comparison of the Toxicity of Some Common Industrial Waste Components Tested Individually and Combined. <i>Prog. Fish-Cult.</i> 30(1):3-8
		Aquatic invertebrates	LC50 Crustacean 8450 mg/l (48 h) [1] [1] Cowgill, U.M., and D.P. Milazzo 1991. The Sensitivity of Ceriodaphnia dubia and Daphnia magna to Seven Chemicals Utilizing the Three-Brood Test. <i>Arch. Environ. Contam. Toxicol.</i> 20(2):211-217. Canton, J.H., and D.M.M. Adema 1978. Reproducibility of Short-Term and Reproduction Toxicity Experiments with Daphnia magna and Comparison of the Sensitivity of Daphnia magna with Daphnia pulex and Daphnia cucullata in Short-Term Experiments. <i>Hydrobiologia</i> 59(2):135-140 (Used Reference 2018)
		Aquatic plants	EC50 Algae 7200 mg/l (96 h) [1]

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CAS No: 67-64-1	EC No: 200-662-2		[1] Slooff, W. 1982. A Comparative Study on the Short-Term Effects of 15 Chemicals on Fresh Water Organisms of Different Tropic Levels. Natl.Tech.Inf.Serv., Springfield, VA :25 p. (DUT) (ENG ABS) (NTIS/PB83-200386)
butan-1-ol		Fish	LC50 Pimephales promelas 1376 mg/L (96 h) [1] [1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.
		Aquatic invertebrates	EC50 Daphnia magna 1328 mg/L (48 h) [1] [1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.
		Aquatic plants	EC90 Selenastrum capricornutum (Pseudokirchnerella subcapitata) 717 mg/L (96 h) [1] [1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.
CAS No: 71-36-3	EC No: 200-751-6		
2-methylpropan-1-ol, iso-butanol		Fish	EC50 Pimephales promelas 1430 mg/L (96 h h) [1] [1] Brooke, L.T. et al., 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas). Vol. I. Center for Lake Superior Environmental Studies. University of Wisconsin-Superior.
		Aquatic invertebrates	EC50 Daphnia magna 1300 mg/L (48 h) [1] [1] Elnabarawy MT, Welter AN, Robideau RR. 1986. relative sensitivity of three daphnid species to selected organic and inorganic chemicals. Environ Toxicol Chem 5: 393-398.
		Aquatic plants	EC90 Selenastrum capricornutum (Pseudokirchnerella subcapitata) 717 mg/L (96 h) [1] [1] Wong, D.C.L, P.B. Dorn, and J.P. Salanitro. 1998. Aquatic Toxicity of Four Oxy-Solvents. Equilon Enterprises, LLC Technical Information Record WTC-3520.
CAS No: 78-83-1	EC No: 201-148-0		

12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present.No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
ethylbenzene	3,15	-	-	Moderate
CAS No: 100-41-4				EC No: 202-849-4

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ethyl acetate CAS No: 141-78-6 EC No: 205-500-4	0,73	-	9,65 mg/L	Very low
n-butyl acetate CAS No: 123-86-4 EC No: 204-658-1	1,78	-	-	Very low
acetone, propan-2-one, propanone CAS No: 67-64-1 EC No: 200-662-2	-0,24	3	-	Very low
butan-1-ol CAS No: 71-36-3 EC No: 200-751-6	0,84	-	-	Very low
2,6-dimethylheptan-4-one, di-isobutyl ketone CAS No: 108-83-8 EC No: 203-620-1	2,56	-	-	Low
2-methylpropan-1-ol, iso-butanol CAS No: 78-83-1 EC No: 201-148-0	0,76	-	-	Very low
Nonane CAS No: 111-84-2 EC No: 203-913-4	4,76	-	-	High
propionic acid CAS No: 79-09-4 EC No: 201-176-3	0,33	-	-	Very low

12.4 Mobility in soil.

No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.
Follow the provisions of Directive 2008/98/EC regarding waste management.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading

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Air: Transport by plane: ICAO/IATA.
Transport document: Airway bill.

14.1 UN number.

UN No: UN1263

14.2 UN proper shipping name.

Description:

ADR: UN 1263, PAINT RELATED MATERIAL, 3, PG III, (D/E)

IMDG: UN 1263, PAINT RELATED MATERIAL, 3, PG III

ICAO/IATA: UN 1263, PAINT RELATED MATERIAL, 3, PG III

14.3 Transport hazard class(es).

Class(es): 3

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: No

14.6 Special precautions for user.

Labels: 3



Hazard number: 30

ADR LQ: 5 L

IMDG LQ: 5 L

ICAO LQ: 10 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-E

Proceed in accordance with point 6.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

The product is not transported in bulk.

SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Volatile organic compound (VOC)

Product Subcategory (Directive 2004/42/EC): d - Interior/exterior trim and cladding paints for wood and metal, solvent-borne

Phase I* (from 01/01/2007): 400 g/l

Phase II* (from 01/01/2010): 300 g/l

(*) g/l ready to use

VOC content (p/p): 26,412 %

VOC content: 359,206 g/l

The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

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The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Restrictions on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles:

Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
67. Bis(pentabromophenyl)ether (decabromodiphenyl ether; decaBDE) CAS No 1163-19-5 EC No 214-604-9	<ol style="list-style-type: none">1. Shall not be manufactured or placed on the market as a substance on its own after 2 March 2019.2. Shall not be used in the production of, or placed on the market in:<ol style="list-style-type: none">(a) another substance, as a constituent;(b) a mixture;(c) an article, or any part thereof, in a concentration equal to or greater than 0,1 % by weight, after 2 March 2019.3. Paragraphs 1 and 2 shall not apply to a substance, constituent of another substance or mixture that is to be used, or is used:<ol style="list-style-type: none">(a) in the production of an aircraft before 2 March 2027.(b) in the production of spare parts for either of the following:<ol style="list-style-type: none">(i) an aircraft produced before 2 March 2027;(ii) motor vehicles within the scope of Directive 2007/46/EC, agricultural and forestry vehicles within the scope of Regulation (EU) No 167/2013 of the European Parliament and of the Council (*1) or machinery within the scope of Directive 2006/42/EC of the European Parliament and of the Council (*2), produced before 2 March 2019.4. Subparagraph 2(c) shall not apply to any of the following:<ol style="list-style-type: none">(a) articles placed on the market before 2 March 2019;(b) aircraft produced in accordance with subparagraph 3(a);(c) spare parts of aircraft, vehicles or machines produced in accordance with subparagraph 3(b);(d) electrical and electronic equipment within the scope of Directive 2011/65/EU.5. For the purposes of this entry "aircraft" means one of the following:<ol style="list-style-type: none">(a) a civil aircraft produced in accordance with a type certificate issued under Regulation (EU) No 216/2008 of the European Parliament and of the Council (*3) or with a design approval issued under the national regulations of a contracting State of the International Civil Aviation Organisation (ICAO), or for which a certificate of airworthiness has been issued by an ICAO contracting State under Annex 8 to the Convention on International Civil Aviation;(b) a military aircraft.

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

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H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>. (órganos de audición)
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.

Classification codes:

Acute Tox. 3 : Acute toxicity (Dermal), Category 3
Acute Tox. 3 : Acute toxicity (Oral), Category 3
Acute Tox. 4 : Acute toxicity (Dermal), Category 4
Acute Tox. 4 : Acute toxicity (Inhalation), Category 4
Acute Tox. 4 : Acute toxicity (Oral), Category 4
Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1
Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1
Aquatic Chronic 2 : Chronic effect to the aquatic environment, Category 2
Aquatic Chronic 3 : Chronic effect to the aquatic environment, Category 3
Asp. Tox. 1 : Aspiration toxicity, Category 1
Carc. 2 : Carcinogen, Category 2
Eye Dam. 1 : Serious eye damage, Category 1
Eye Irrit. 2 : Eye irritation, Category 2
Flam. Liq. 2 : Flammable liquid, Category 2
Flam. Liq. 3 : Flammable liquid, Category 3
Repr. 2 : Reproductive toxicant, Category 2
Skin Corr. 1B : Skin Corrosive, Category 1B
Skin Irrit. 2 : Skin irritant, Category 2
Skin Sens. 1 : Skin sensitiser, Category 1
STOT RE 2 : Specific target organ toxicity following a repeated exposure, Category 2
STOT SE 3 : Specific target organ toxicity following a single exposure, Category 3

Changes regarding to the previous version:

- Change of the name of the product (SECTION 1.1).
- Change of the uses of the product (SECTION 1.2).
- Changes in the composition of the product (SECTION 3.2).
- Addition of exposure data (SECTION 8.1).
- Modification in the values of the physical and chemical properties (SECTION 9).
- Addition of ecotoxicity values (SECTION 11.1).
- Change in the hazard classification (SECTION 11.1).
- Addition of ecological information values (SECTION 12.1).
- Addition of ecological information values (SECTION 12.3).
- National legislative changes (SECTION 15.1).

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards	On basis of test data
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
BCF:	Bioconcentration factor.
CEN:	European Committee for Standardization.

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- DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
- DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
- EC50: Half maximal effective concentration.
- PPE: Personal protection equipment.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organization.
- IMDG: International Maritime Code for Dangerous Goods.
- LC50: Lethal concentration, 50%.
- LD50: Lethal dose, 50%.
- Log Pow: Logarithm of the partition octanol-water.
- NOEC: No observed effect concentration.
- PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.
- RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.