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

1.1. Product identifier

Product form : Mixture
Trade name : Vaeprimer L
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial uses
Use of the substance/mixture : Further information: see technical data sheet. TDS Vaeprimer L

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Imperbel N.V./S.A
Guido Gezellestraat 123
1654 Beersel (Huizingen), Belgium
Tel.+32 2 334 87 00
Fax:+32 2 378 14 69
infobe@derbigum.com
www.derbigum.be

1.4. Emergency telephone number

Emergency number : + 32 3 575 55 55 (24h/24h)

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)


SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226
Skin Irrit. 2 H315
Eye Irrit. 2 H319
STOT SE 3 H336
STOT RE 2 H373

Full text of H- and EUH-statements: see section 16

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word :

Warning

Contains :

n-butyl acetate, Xylene

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe fume, gas, vapours.
P314 - Get medical advice/attention if you feel unwell.
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO₂), extinguishing powder, Water spray for extinction.
P403+P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to an approved waste disposal plant.

Extra phrases :

EUH208 - Contains rosin; colophony. May produce an allergic reaction.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
ethylbenzene (100-41-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII


The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
n-butyl acetate	(CAS-No.) 123-86-4 (EC-No.) 204-658-1 (EC Index) 607-025-00-1 (REACH-no) 01-2119485493-29-xxxx	20 – 40	Flam. Liq. 3, H226 STOT SE 3, H336
Xylene substance with a Community workplace exposure limit	(CAS-No.) 1330-20-7 (EC-No.) 215-535-7 (EC Index) 601-022-00-9	< 12,5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
ethylbenzene substance with a Community workplace exposure limit	(CAS-No.) 100-41-4 (EC-No.) 202-849-4 (EC Index) 601-023-00-4	< 2	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
rosin; colophony	(CAS-No.) 8050-09-7 (EC-No.) 232-475-7 (EC Index) 650-015-00-7	< 1	Skin Sens. 1, H317
zinc oxide	(CAS-No.) 1314-13-2 (EC-No.) 215-222-5 (EC Index) 030-013-00-7 (REACH-no) 01-2119463881-32-xxxx	< 0,2	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16


SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection!. See also section 8 . Never give anything by mouth to an unconscious person. Show this safety data sheet to the doctor in attendance. Treat symptomatically.
Inhalation	: Provide fresh air. Put victim at rest, cover with a blanket and keep warm. Give oxygen or artificial respiration if necessary. In case of feeling unwell: Get medical advice/attention.
Skin contact	: Take off immediately all contaminated clothing. Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical advice/attention.
Ingestion	: Do NOT induce vomiting. If swallowed, rinse mouth with water (only if the person is conscious). Get immediate medical advice/attention.

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

Inhalation	: Vapours may cause drowsiness and dizziness.
Skin contact	: Causes skin irritation. The following symptoms may occur: irritation (itching, redness, blistering).
Eyes contact	: Causes serious eye damage. The following symptoms may occur: redness, itching, tears.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause damage to organs through prolonged or repeated exposure.
Chronic symptoms	: May cause damage to organs through prolonged or repeated exposure.

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

In case of doubt or persistent symptoms, consult always a physician.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Alcohol resistant foam. extinguishing powder. Carbon dioxide .
 Unsuitable extinguishing media : Strong water jet .

5.2. Special hazards arising from the substance or mixture

Specific hazards : Danger of bursting container. Vapours are heavier than air and may spread along floors. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.
 Explosion hazard : Vapours may form explosive mixture with air. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
 Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2). Toxic fumes.

5.3. Advice for firefighters

Firefighting instructions : Evacuate personnel to a safe area. Special protective equipment for firefighters. : In case of fire: Wear self-contained breathing apparatus. Cool containers / tanks with water spray. Temperature class : T3.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel : Provide adequate ventilation. Use personal protective equipment as required. Reference to other sections 8. Evacuate personnel to a safe area. Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Remove all sources of ignition. Ensure equipment is adequately earthed.

6.1.2. For emergency responders

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Reference to other sections 8.

6.2. Environmental precautions


Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up. Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or powdered limestone. Collect in closed and suitable containers for disposal. Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8 . Concerning disposal elimination after cleaning, see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8 . Avoid contact with skin, eyes and clothing. Do not breathe vapour/aerosol. Ensure equipment is adequately earthed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not smoke. After use replace the closing cap immediately. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Do not allow to enter into surface water or drains. Take any precaution to avoid mixing with combustibles... See also section 10 .

Hygiene measures : Use only in area provided with appropriate exhaust ventilation. Wash hands and face before breaks and immediately after handling of the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Keep good industrial hygiene.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Storage of flammable liquids (LGK3). Keep containers tightly closed in a dry, cool and well-ventilated place. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity. Ensure equipment is adequately earthed.

Incompatible substances or mixtures : Strong oxidizing agents. Strong bases.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of direct sunlight.

Packaging materials : Keep only in the original container. Recommended packaging materials : Steel. Stainless steel .


7.3. Specific end use(s)

No additional information available


SECTION 8: Exposure controls/personal protection

8.1. Control parameters


n-butyl acetate (123-86-4)		
Austria	MAK (OEL TWA)	241 mg/m ³ (Butyl acetates)
Austria	MAK (OEL TWA) [ppm]	50 ppm (Butyl acetates)
Austria	MAK (OEL STEL)	480 mg/m ³ (all isomers except tert-Butyl acetate (Butyl acetate))
Austria	MAK (OEL STEL) [ppm]	100 ppm (all isomers except tert-Butyl acetate (Butyl acetate))
Belgium	OEL TWA	238 mg/m ³
Belgium	OEL TWA [ppm]	50 ppm
Belgium	OEL STEL	712 mg/m ³
Belgium	OEL STEL [ppm]	150 ppm
Bulgaria	OEL TWA	241 mg/m ³
Bulgaria	OEL TWA [ppm]	50 ppm
Bulgaria	OEL STEL	723 mg/m ³
Bulgaria	OEL STEL [ppm]	150 ppm
Croatia	GVI (OEL TWA) [1]	241 mg/m ³
Croatia	GVI (OEL TWA) [2]	50 ppm
Croatia	KGVI (OEL STEL)	723 mg/m ³

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n-butyl acetate (123-86-4)		
Croatia	KGVI (OEL STEL) [ppm]	150 ppm
Cyprus	OEL TWA	241 mg/m ³
Cyprus	OEL TWA [ppm]	50 ppm
Cyprus	OEL STEL	723 mg/m ³
Cyprus	OEL STEL [ppm]	150 ppm
Czech Republic	PEL (OEL TWA)	241 mg/m ³
Denmark	OEL TWA [1]	241 mg/m ³ (Butyl acetate, all isomers)
Denmark	OEL TWA [2]	50 ppm (Butyl acetate, all isomers)
Finland	HTP (OEL TWA) [1]	240 mg/m ³ (Butyl acetate)
Finland	HTP (OEL TWA) [2]	50 ppm (Butyl acetate)
Finland	HTP (OEL STEL)	725 mg/m ³ (Butyl acetate)
Finland	HTP (OEL STEL) [ppm]	150 ppm (Butyl acetate)
France	VME (OEL TWA)	710 mg/m ³
France	VME (OEL TWA) [ppm]	150 ppm
France	VLE (OEL C/STEL)	940 mg/m ³
France	VLE (OEL C/STEL) [ppm]	200 ppm
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	300 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	62 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece	OEL TWA	241 mg/m ³
Greece	OEL TWA [ppm]	50 ppm
Greece	OEL STEL	723 mg/m ³
Greece	OEL STEL [ppm]	150 ppm
Hungary	AK (OEL TWA)	241 mg/m ³
Hungary	CK (OEL STEL)	723 mg/m ³
Ireland	OEL STEL	723 mg/m ³
Ireland	OEL STEL [ppm]	150 ppm
Italy	OEL TWA	241 mg/m ³
Italy	OEL TWA [ppm]	50 ppm
Italy	OEL STEL	723 mg/m ³
Italy	OEL STEL [ppm]	150 ppm
Latvia	OEL TWA	241 mg/m ³
Latvia	OEL TWA [ppm]	50 ppm
Lithuania	IPRV (OEL TWA)	241 mg/m ³
Lithuania	IPRV (OEL TWA) [ppm]	50 ppm
Lithuania	TPRV (OEL STEL)	723 mg/m ³
Lithuania	TPRV (OEL STEL) [ppm]	150 ppm
Malta	OEL TWA	214 mg/m ³
Malta	OEL TWA [ppm]	50 ppm

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n-butyl acetate (123-86-4)		
Malta	OEL STEL	723 mg/m ³
Malta	OEL STEL [ppm]	150 ppm
Netherlands	TGG-8u (OEL TWA)	241 mg/m ³
Netherlands	TGG-15min (OEL STEL)	723 mg/m ³
Poland	NDS (OEL TWA)	240 mg/m ³
Poland	NDSch (OEL STEL)	720 mg/m ³
Portugal	OEL TWA	241 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	50 ppm (indicative limit value)
Portugal	OEL STEL	723 mg/m ³ (indicative limit value)
Portugal	OEL STEL [ppm]	150 ppm (indicative limit value)
Romania	OEL TWA	715 mg/m ³
Romania	OEL TWA [ppm]	150 ppm
Romania	OEL STEL	950 mg/m ³
Romania	OEL STEL [ppm]	200 ppm
Slovakia	NPHV (OEL TWA) [1]	500 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	100 ppm
Slovakia	NPHV (OEL C)	700 mg/m ³
Slovenia	OEL TWA	241 mg/m ³
Slovenia	OEL TWA [ppm]	50 ppm
Slovenia	OEL STEL	723 mg/m ³
Slovenia	OEL STEL [ppm]	150 ppm
Spain	VLA-ED (OEL TWA) [1]	724 mg/m ³
Spain	VLA-ED (OEL TWA) [2]	150 ppm
Spain	VLA-EC (OEL STEL)	965 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	200 ppm
Sweden	NGV (OEL TWA)	241 mg/m ³ (Butyl acetates)
Sweden	NGV (OEL TWA) [ppm]	50 ppm (Butyl acetates)
Sweden	KTV (OEL STEL)	723 mg/m ³ (Butyl acetates)
Sweden	KTV (OEL STEL) [ppm]	150 ppm (Butyl acetates)
United Kingdom	WEL TWA (OEL TWA) [1]	724 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	150 ppm
United Kingdom	WEL STEL (OEL STEL)	966 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	200 ppm
Norway	Grenseverdi (OEL TWA) [1]	241 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	50 ppm
Norway	Korttidsverdi (OEL STEL)	723 mg/m ³ (value from the regulation)
Norway	Korttidsverdi (OEL STEL) [ppm]	150 ppm (value from the regulation)
Switzerland	MAK (OEL TWA) [1]	240 mg/m ³
Switzerland	MAK (OEL TWA) [2]	50 ppm
Switzerland	KZGW (OEL STEL)	720 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	150 ppm
Australia	OES TWA [1]	713 mg/m ³

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n-butyl acetate (123-86-4)		
Australia	OES TWA [2]	150 ppm
Australia	OES STEL	950 mg/m ³
Australia	OES STEL [ppm]	200 ppm
Canada (Quebec)	VECD (OEL STEL) [ppm]	150 ppm (Butyl acetate (all isomers))
Canada (Quebec)	VEMP (OEL TWA) [ppm]	50 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	50 ppm (Butyl acetates, all isomers)
USA - ACGIH	ACGIH OEL STEL [ppm]	150 ppm (Butyl acetates, all isomers)
USA - IDLH	IDLH [ppm]	1700 ppm (10% LEL)
USA - NIOSH	NIOSH REL TWA	710 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	150 ppm
USA - NIOSH	NIOSH REL STEL	950 mg/m ³
USA - NIOSH	NIOSH REL STEL [ppm]	200 ppm
USA - OSHA	OSHA PEL TWA [1]	710 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	150 ppm
Xylene (1330-20-7)		
EU	IOEL TWA	221 mg/m ³ (pure)
EU	IOEL TWA [ppm]	50 ppm (pure)
EU	IOEL STEL	442 mg/m ³ (pure)
EU	IOEL STEL [ppm]	100 ppm (pure)
EU	Remark	Possibility of significant uptake through the skin (pure)
Austria	MAK (OEL TWA)	221 mg/m ³ (all isomers)
Austria	MAK (OEL TWA) [ppm]	50 ppm (all isomers)
Austria	MAK (OEL STEL)	442 mg/m ³
Austria	MAK (OEL STEL) [ppm]	100 ppm
Belgium	OEL TWA	221 mg/m ³
Belgium	OEL TWA [ppm]	50 ppm
Belgium	OEL STEL	442 mg/m ³
Belgium	OEL STEL [ppm]	100 ppm
Bulgaria	OEL TWA	221 mg/m ³ (pure)
Bulgaria	OEL TWA [ppm]	50 ppm (pure)
Bulgaria	OEL STEL	442 mg/m ³ (pure)
Bulgaria	OEL STEL [ppm]	100 ppm (pure)
Croatia	GVI (OEL TWA) [1]	221 mg/m ³
Croatia	GVI (OEL TWA) [2]	50 ppm
Croatia	KGVI (OEL STEL)	442 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	100 ppm
Cyprus	OEL TWA	221 mg/m ³
Cyprus	OEL TWA [ppm]	50 ppm
Cyprus	OEL STEL	442 mg/m ³
Cyprus	OEL STEL [ppm]	100 ppm
Czech Republic	PEL (OEL TWA)	200 mg/m ³
Denmark	OEL TWA [1]	109 mg/m ³ (Xylene, all isomers)
Denmark	OEL TWA [2]	25 ppm (Xylene, all isomers)

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Xylene (1330-20-7)		
Estonia	OEL TWA	200 mg/m ³
Estonia	OEL TWA [ppm]	50 ppm
Estonia	OEL STEL	450 mg/m ³
Estonia	OEL STEL [ppm]	100 ppm
Finland	HTP (OEL TWA) [1]	220 mg/m ³
Finland	HTP (OEL TWA) [2]	50 ppm
Finland	HTP (OEL STEL)	440 mg/m ³
Finland	HTP (OEL STEL) [ppm]	100 ppm
France	VME (OEL TWA)	221 mg/m ³ (restrictive limit)
France	VME (OEL TWA) [ppm]	50 ppm (restrictive limit)
France	VLE (OEL C/STEL)	442 mg/m ³ (restrictive limit)
France	VLE (OEL C/STEL) [ppm]	100 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	220 mg/m ³ (all isomers)
Germany	Occupational exposure limit value (ppm) (TRGS900)	50 ppm (all isomers)
Germany	Biological limit value	2000 mg/l Parameter: Methylhippuric(tolur-)acid (all isomers) - Medium: urine - Sampling time: end of shift (all isomers)
Gibraltar	OEL TWA	221 mg/m ³ (pure)
Gibraltar	OEL TWA [ppm]	50 ppm (pure)
Gibraltar	OEL STEL	442 mg/m ³ (pure)
Gibraltar	OEL STEL [ppm]	100 ppm (pure)
Greece	OEL TWA	435 mg/m ³
Greece	OEL TWA [ppm]	100 ppm
Greece	OEL STEL	650 mg/m ³
Greece	OEL STEL [ppm]	150 ppm
Hungary	AK (OEL TWA)	221 mg/m ³
Hungary	CK (OEL STEL)	442 mg/m ³
Ireland	OEL TWA [1]	221 mg/m ³
Ireland	OEL TWA [2]	50 ppm
Ireland	OEL STEL	442 mg/m ³
Ireland	OEL STEL [ppm]	100 ppm
Italy	OEL TWA	221 mg/m ³ (pure)
Italy	OEL TWA [ppm]	50 ppm (pure)
Italy	OEL STEL	442 mg/m ³ (pure)
Italy	OEL STEL [ppm]	100 ppm (pure)
Latvia	OEL TWA	221 mg/m ³
Latvia	OEL TWA [ppm]	50 ppm
Lithuania	IPRV (OEL TWA)	221 mg/m ³ (mixed isomers, pure)
Lithuania	IPRV (OEL TWA) [ppm]	50 ppm (mixed isomers, pure)
Lithuania	TPRV (OEL STEL)	442 mg/m ³ (mixed isomers, pure)

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Xylene (1330-20-7)		
Lithuania	TPRV (OEL STEL) [ppm]	100 ppm (mixed isomers, pure)
Luxembourg	OEL TWA	221 mg/m ³
Luxembourg	OEL TWA [ppm]	50 ppm
Luxembourg	OEL STEL	442 mg/m ³
Luxembourg	OEL STEL [ppm]	100 ppm
Malta	OEL TWA	221 mg/m ³ (pure)
Malta	OEL TWA [ppm]	50 ppm (pure)
Malta	OEL STEL	442 mg/m ³ (pure)
Malta	OEL STEL [ppm]	100 ppm (pure)
Netherlands	TGG-8u (OEL TWA)	210 mg/m ³
Netherlands	TGG-15min (OEL STEL)	442 mg/m ³
Poland	NDS (OEL TWA)	100 mg/m ³ (mixture of isomers)
Poland	NDSch (OEL STEL)	200 mg/m ³ (mixture of isomers)
Portugal	OEL TWA	221 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	50 ppm (indicative limit value)
Portugal	OEL STEL	442 mg/m ³ (indicative limit value)
Portugal	OEL STEL [ppm]	100 ppm (indicative limit value)
Romania	OEL TWA	221 mg/m ³ (pure)
Romania	OEL TWA [ppm]	50 ppm (pure)
Romania	OEL STEL	442 mg/m ³ (pure)
Romania	OEL STEL [ppm]	100 ppm (pure)
Slovakia	NPHV (OEL TWA) [1]	221 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	50 ppm
Slovakia	NPHV (OEL C)	442 mg/m ³
Slovenia	OEL TWA	221 mg/m ³
Slovenia	OEL TWA [ppm]	50 ppm
Slovenia	OEL STEL	442 mg/m ³
Slovenia	OEL STEL [ppm]	100 ppm
Spain	VLA-ED (OEL TWA) [1]	221 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	50 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	442 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	100 ppm
Sweden	NGV (OEL TWA)	221 mg/m ³ (Xylene)
Sweden	NGV (OEL TWA) [ppm]	50 ppm (Xylene)
Sweden	KTV (OEL STEL)	442 mg/m ³ (Xylene)
Sweden	KTV (OEL STEL) [ppm]	100 ppm (Xylene)
United Kingdom	WEL TWA (OEL TWA) [1]	220 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	50 ppm
United Kingdom	WEL STEL (OEL STEL)	441 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	100 ppm
Norway	Grenseverdi (OEL TWA) [1]	108 mg/m ³

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Xylene (1330-20-7)		
Norway	Grenseverdi (OEL TWA) [2]	25 ppm
Norway	Korttidsverdi (OEL STEL)	135 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	37,5 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	435 mg/m ³
Switzerland	MAK (OEL TWA) [2]	100 ppm
Switzerland	KZGW (OEL STEL)	870 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	200 ppm
Australia	OES TWA [1]	350 mg/m ³
Australia	OES TWA [2]	80 ppm
Australia	OES STEL	655 mg/m ³
Australia	OES STEL [ppm]	150 ppm
Canada (Quebec)	VECD (OEL STEL)	651 mg/m ³
Canada (Quebec)	VECD (OEL STEL) [ppm]	150 ppm
Canada (Quebec)	VEMP (OEL TWA)	434 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	100 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	100 ppm
USA - ACGIH	ACGIH OEL STEL [ppm]	150 ppm
USA - OSHA	OSHA PEL TWA [1]	435 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	100 ppm
ethylbenzene (100-41-4)		
EU	IOEL TWA	442 mg/m ³
EU	IOEL TWA [ppm]	100 ppm
EU	IOEL STEL	884 mg/m ³
EU	IOEL STEL [ppm]	200 ppm
EU	Remark	Possibility of significant uptake through the skin
Austria	MAK (OEL TWA)	440 mg/m ³
Austria	MAK (OEL TWA) [ppm]	100 ppm
Austria	MAK (OEL STEL)	880 mg/m ³
Austria	MAK (OEL STEL) [ppm]	200 ppm
Belgium	OEL TWA	87 mg/m ³
Belgium	OEL TWA [ppm]	20 ppm
Belgium	OEL STEL	551 mg/m ³
Belgium	OEL STEL [ppm]	125 ppm
Bulgaria	OEL TWA	435 mg/m ³
Bulgaria	OEL STEL	545 mg/m ³
Croatia	GVI (OEL TWA) [1]	442 mg/m ³
Croatia	GVI (OEL TWA) [2]	100 ppm
Croatia	KGVI (OEL STEL)	884 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	200 ppm
Cyprus	OEL TWA	442 mg/m ³
Cyprus	OEL TWA [ppm]	100 ppm
Cyprus	OEL STEL	884 mg/m ³
Cyprus	OEL STEL [ppm]	200 ppm
Czech Republic	PEL (OEL TWA)	200 mg/m ³

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ethylbenzene (100-41-4)		
Denmark	OEL TWA [1]	217 mg/m ³
Denmark	OEL TWA [2]	50 ppm
Estonia	OEL TWA	442 mg/m ³
Estonia	OEL TWA [ppm]	100 ppm
Estonia	OEL STEL	884 mg/m ³
Estonia	OEL STEL [ppm]	200 ppm
Finland	HTP (OEL TWA) [1]	220 mg/m ³
Finland	HTP (OEL TWA) [2]	50 ppm
Finland	HTP (OEL STEL)	880 mg/m ³
Finland	HTP (OEL STEL) [ppm]	200 ppm
France	VME (OEL TWA)	88,4 mg/m ³ (restrictive limit)
France	VME (OEL TWA) [ppm]	20 ppm (restrictive limit)
France	VLE (OEL C/STEL)	442 mg/m ³ (restrictive limit)
France	VLE (OEL C/STEL) [ppm]	100 ppm (restrictive limit)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	88 mg/m ³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Occupational exposure limit value (ppm) (TRGS900)	20 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	Biological limit value	250 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of shift
Gibraltar	OEL TWA	442 mg/m ³
Gibraltar	OEL TWA [ppm]	100 ppm
Gibraltar	OEL STEL	884 mg/m ³
Gibraltar	OEL STEL [ppm]	200 ppm
Greece	OEL TWA	435 mg/m ³
Greece	OEL TWA [ppm]	100 ppm
Greece	OEL STEL	545 mg/m ³
Greece	OEL STEL [ppm]	125 ppm
Hungary	AK (OEL TWA)	442 mg/m ³
Hungary	CK (OEL STEL)	884 mg/m ³
Ireland	OEL TWA [1]	442 mg/m ³
Ireland	OEL TWA [2]	100 ppm
Ireland	OEL STEL	884 mg/m ³
Ireland	OEL STEL [ppm]	200 ppm
Italy	OEL TWA	442 mg/m ³
Italy	OEL TWA [ppm]	100 ppm
Italy	OEL STEL	884 mg/m ³
Italy	OEL STEL [ppm]	200 ppm
Latvia	OEL TWA	442 mg/m ³

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ethylbenzene (100-41-4)		
Latvia	OEL TWA [ppm]	100 ppm
Lithuania	IPRV (OEL TWA)	442 mg/m ³
Lithuania	IPRV (OEL TWA) [ppm]	100 ppm
Lithuania	TPRV (OEL STEL)	884 mg/m ³
Lithuania	TPRV (OEL STEL) [ppm]	200 ppm
Luxembourg	OEL TWA	442 mg/m ³
Luxembourg	OEL TWA [ppm]	100 ppm
Luxembourg	OEL STEL	884 mg/m ³
Luxembourg	OEL STEL [ppm]	200 ppm
Malta	OEL TWA	442 mg/m ³
Malta	OEL TWA [ppm]	100 ppm
Malta	OEL STEL	884 mg/m ³
Malta	OEL STEL [ppm]	200 ppm
Netherlands	TGG-8u (OEL TWA)	215 mg/m ³
Netherlands	TGG-15min (OEL STEL)	430 mg/m ³
Poland	NDS (OEL TWA)	200 mg/m ³
Poland	NDSch (OEL STEL)	400 mg/m ³
Portugal	OEL TWA	442 mg/m ³ (indicative limit value)
Portugal	OEL TWA [ppm]	100 ppm (indicative limit value)
Portugal	OEL STEL	884 mg/m ³ (indicative limit value)
Portugal	OEL STEL [ppm]	200 ppm (indicative limit value)
Romania	OEL TWA	442 mg/m ³
Romania	OEL TWA [ppm]	100 ppm
Romania	OEL STEL	884 mg/m ³
Romania	OEL STEL [ppm]	200 ppm
Slovakia	NPHV (OEL TWA) [1]	442 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	100 ppm
Slovakia	NPHV (OEL C)	884 mg/m ³
Slovenia	OEL TWA	442 mg/m ³
Slovenia	OEL TWA [ppm]	100 ppm
Slovenia	OEL STEL	884 mg/m ³
Slovenia	OEL STEL [ppm]	200 ppm
Spain	VLA-ED (OEL TWA) [1]	441 mg/m ³ (indicative limit value)
Spain	VLA-ED (OEL TWA) [2]	100 ppm (indicative limit value)
Spain	VLA-EC (OEL STEL)	884 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	200 ppm
Sweden	NGV (OEL TWA)	220 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	50 ppm
Sweden	KTV (OEL STEL)	884 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	200 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	441 mg/m ³

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ethylbenzene (100-41-4)		
United Kingdom	WEL TWA (OEL TWA) [2]	100 ppm
United Kingdom	WEL STEL (OEL STEL)	552 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	125 ppm
Norway	Grenseverdi (OEL TWA) [1]	20 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	5 ppm
Norway	Korttidsverdi (OEL STEL)	30 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	10 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	220 mg/m ³
Switzerland	MAK (OEL TWA) [2]	50 ppm
Switzerland	KZGW (OEL STEL)	220 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	50 ppm
Australia	OES TWA [1]	434 mg/m ³
Australia	OES TWA [2]	100 ppm
Australia	OES STEL	543 mg/m ³
Australia	OES STEL [ppm]	125 ppm
Canada (Quebec)	VEMP (OEL TWA) [ppm]	20 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	20 ppm
USA - IDLH	IDLH [ppm]	800 ppm (10% LEL)
USA - NIOSH	NIOSH REL TWA	435 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	100 ppm
USA - NIOSH	NIOSH REL STEL	545 mg/m ³
USA - NIOSH	NIOSH REL STEL [ppm]	125 ppm
USA - OSHA	OSHA PEL TWA [1]	435 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	100 ppm
rosin; colophony (8050-09-7)		
Croatia	GVI (OEL TWA) [1]	0,05 mg/m ³ (fume)
Croatia	KGVI (OEL STEL)	0,15 mg/m ³ (fume)
Czech Republic	PEL (OEL TWA)	1 mg/m ³ (inhalable fraction of aerosol)
France	VME (OEL TWA)	0,1 mg/m ³
Latvia	OEL TWA	4 mg/m ³
Romania	OEL TWA	0,1 mg/m ³ (applies to decomposition products with solder pasting)
USA - ACGIH	ACGIH OEL TWA	0,001 mg/m ³ (inhalable particulate matter)
zinc oxide (1314-13-2)		
Austria	MAK (OEL TWA)	5 mg/m ³ (respirable fraction, smoke)
Belgium	OEL TWA	10 mg/m ³ (dust) 5 mg/m ³ (fume) 5 mg/m ³ (aerosol and vapor)
Belgium	OEL STEL	10 mg/m ³ (fume) 10 mg/m ³ (aerosol and vapor)
Bulgaria	OEL TWA	5 mg/m ³
Bulgaria	OEL STEL	10 mg/m ³
Croatia	GVI (OEL TWA) [1]	2 mg/m ³ (respirable dust)

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zinc oxide (1314-13-2)		
Croatia	KGVI (OEL STEL)	10 mg/m ³
Czech Republic	PEL (OEL TWA)	2 mg/m ³
Denmark	OEL TWA [1]	4 mg/m ³ 4 mg/m ³ (fume)
Estonia	OEL TWA	5 mg/m ³
Finland	HTP (OEL TWA) [1]	2 mg/m ³ (fume)
Finland	HTP (OEL STEL)	10 mg/m ³ (fume)
France	VME (OEL TWA)	5 mg/m ³ (fume) 10 mg/m ³ (dust)
Greece	OEL TWA	5 mg/m ³ (fume)
Greece	OEL STEL	10 mg/m ³ (fume)
Hungary	AK (OEL TWA)	5 mg/m ³ (fume) 5 mg/m ³ (powder)
Ireland	OEL TWA [1]	2 mg/m ³ (fume; respirable fraction)
Ireland	OEL STEL	10 mg/m ³ (fume; respirable fraction)
Latvia	OEL TWA	0,5 mg/m ³
Lithuania	IPRV (OEL TWA)	5 mg/m ³
Poland	NDS (OEL TWA)	5 mg/m ³ (inhalable fraction)
Poland	NDSch (OEL STEL)	10 mg/m ³ (inhalable fraction)
Portugal	OEL TWA	2 mg/m ³ (respirable fraction)
Portugal	OEL STEL	10 mg/m ³ (respirable fraction)
Romania	OEL TWA	5 mg/m ³ (fume)
Romania	OEL STEL	10 mg/m ³ (fume)
Slovakia	NPHV (OEL TWA) [1]	1 mg/m ³ (fume)
Slovakia	NPHV (OEL C)	1 mg/m ³
Spain	VLA-ED (OEL TWA) [1]	2 mg/m ³ (respirable fraction)
Spain	VLA-EC (OEL STEL)	10 mg/m ³
Sweden	NGV (OEL TWA)	5 mg/m ³ (total dust)
Norway	Grenseverdi (OEL TWA) [1]	5 mg/m ³
Norway	Korttidsverdi (OEL STEL)	10 mg/m ³ (value calculated)
Switzerland	MAK (OEL TWA) [1]	3 mg/m ³ (respirable dust, smoke)
Switzerland	KZGW (OEL STEL)	3 mg/m ³ (respirable dust, smoke)
Australia	OES TWA [1]	10 mg/m ³ (containing no Asbestos and <1% Crystalline silica-inhalable dust) 5 mg/m ³ (fume)
Australia	OES STEL	10 mg/m ³ (fume)
Canada (Quebec)	VECD (OEL STEL)	10 mg/m ³ (respirable dust)
Canada (Quebec)	VEMP (OEL TWA)	2 mg/m ³ (respirable dust)
USA - ACGIH	ACGIH OEL TWA	2 mg/m ³ (respirable particulate matter)
USA - ACGIH	ACGIH OEL STEL	10 mg/m ³ (respirable particulate matter)
USA - IDLH	IDLH	500 mg/m ³
USA - NIOSH	NIOSH REL TWA	5 mg/m ³ (dust and fume)

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zinc oxide (1314-13-2)		
USA - NIOSH	NIOSH REL STEL	10 mg/m ³ (fume)
USA - NIOSH	NIOSH REL C	15 mg/m ³ (dust)
USA - OSHA	OSHA PEL TWA [1]	5 mg/m ³ (fume) 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)


8.2. Exposure controls

Engineering measure(s)	: Provide adequate ventilation. Use only in area provided with appropriate exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Take precautionary measures against static discharges. Organisational measures to prevent /limit releases, dispersion and exposure : Reference to other sections 7.
Personal protective equipment	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . Recommended material: PE/EVAL/PE. The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Eye protection	: Wear eye protection. Safety glasses
Body protection	: Wear suitable protective clothing, gloves and eye/face protection.
Respiratory protection	: Usually no personal respirative protection necessary. In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136) (EN136). Half-face mask (DIN EN 140) (EN140). Filter type: A2 (EN141).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: liquid.
Colour	: red.
Odour	: solvent-like.
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: 124 °C
Flash point	: 24 °C
Auto-ignition temperature	: 360 °C Ignition temperature
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: 12 hPa (20°C)

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Vapour density	: No data available
Relative density	: No data available
Density	: ~ 0,96 g/cm ³ (20°C)
Solubility	: Water: Insoluble
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: 560 mPa.s
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable.
Explosive limits	: LEL 1,0 vol % - UEL 10,4 vol %
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 45 % (431,9 g/l)

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour. Reference to other sections 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Does not decompose when used for intended uses.

10.4. Conditions to avoid


Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Handling and storage . Reference to other sections 7:

10.5. Incompatible materials

Strong oxidizing agents . Reference to other sections 7: Handling and storage.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Hazardous decomposition products due to incomplete combustion. Carbon monoxide.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Vaeprimer L	
LD50/dermal/rat	10185 mg/kg
LC50/inhalation/4h/rat	91,7 mg/l
ATE CLP (vapours)	91,7 mg/l/4h
ATE CLP (dust,mist)	91,7 mg/l/4h
n-butyl acetate (123-86-4)	
LD50/oral/rat	10760 mg/kg
LD50 oral	10760 mg/kg Rat
LD50/dermal/rabbit	> 14000 mg/kg
LD50 dermal	> 14000 mg/kg rabbit
LC50/inhalation/4h/rat	0,74 mg/l/4h
Xylene (1330-20-7)	
LD50/oral/rat	3523 mg/kg
LD50/dermal/rabbit	12126 mg/kg
LC50/inhalation/4h/rat	27124 mg/m ³
ethylbenzene (100-41-4)	
LD50/oral/rat	3500 mg/kg
LD50/dermal/rabbit	15400 mg/kg
LC50/inhalation/4h/rat (ppm)	4000 ppm/4h
rosin; colophony (8050-09-7)	
LD50/oral/rat	7600 mg/kg
LD50/dermal/rabbit	> 2500 mg/kg
LC50/inhalation/4h/rat	1,5 mg/l/4h
zinc oxide (1314-13-2)	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rat	> 2000 mg/kg
LC50/inhalation/4h/rat	> 5,7 mg/l

Skin corrosion/irritation	: Causes skin irritation. (Based on available data, the classification criteria are not met) pH: Not applicable
Serious eye damage/irritation	: Causes serious eye irritation. (Based on available data, the classification criteria are not met) pH: Not applicable
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: May cause drowsiness or dizziness. CAS 123-86-4 : May cause drowsiness or dizziness.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure. (Based on available data, the classification criteria are not met)

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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Vaeprimer L	
Kinematic viscosity	560 mm ² /s (@20°C)(Brookfield)

Other information : Symptoms related to the physical, chemical and toxicological characteristics. Reference to other sections 4.2.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, Reference to other sections 4.2

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : No data available . Information given is based on data on the components and the ecotoxicology of similar products.


Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

n-butyl acetate (123-86-4)	
LC50 - Fish [1]	(96h) 18 mg/l
EC50 - Crustacea [1]	(48h) 44 mg/l
EC50 72h - Algae [1]	674,7 mg/l (Species: Desmodesmus subspicatus)

Xylene (1330-20-7)	
LC50 - Fish [1]	2,6 mg/l (96h)
EC50 - Crustacea [1]	1 mg/l (48h)
IC50, algae	2.2 mg/l (72 hours)

ethylbenzene (100-41-4)	
LC50 - Fish [1]	11 - 18 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
LC50 - Fish [2]	4,2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 - Crustacea [1]	1,8 – 2,4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	4,6 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [2]	2,6 – 11,3 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	> 438 mg/l (Species: Pseudokirchneriella subcapitata)

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EC50 96h - Algae [2]	1,7 – 7,6 mg/l (Species: Pseudokirchneriella subcapitata [static])
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rosin; colophony (8050-09-7)

EC50 - Crustacea [1]	3,8 – 5,4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	400 mg/l (Species: Desmodesmus subspicatus)

zinc oxide (1314-13-2)

LC50 - Fish [1]	> 1000 mg/l (Leuciscus idus. OECD 203)
LC50 - Fish [2]	(96h) 0,169 mg/l Oncorhynchus mykiss (Rainbow trout)
LC50 - Other aquatic organisms [1]	(48h) 0,28 mg/l Daphnia magna (Big water flea)
LC50 - Other aquatic organisms [2]	(72h) 0,136 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [1]	0,17 mg/l (Pseudokirchnerella subcapitata. OECD 201)
NOEC (additional information)	NOEC, algae (72h): 0,019 mg/l (Pseudokirchnerella subcapitata. OECD 201)

12.2. Persistence and degradability

Vaeprimer L	
Persistence and degradability	No data available.

ethylbenzene (100-41-4)

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

n-butyl acetate (123-86-4)

Partition coefficient n-octanol/water	1,81 (at 23 °C)
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Xylene (1330-20-7)

BCF - Fish [1]	0,6 – 15
Partition coefficient n-octanol/water	2,77 – 3,15

ethylbenzene (100-41-4)


BCF - Fish [1]	(15 dimensionless)
Bioconcentration factor (BCF)	79,43
Partition coefficient n-octanol/water	3,6 (at 20 °C (at pH 7.84))
Bioaccumulative potential	Low.

rosin; colophony (8050-09-7)

Partition coefficient n-octanol/water	(>1.9 - <=7.7 (at pH 2))
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zinc oxide (1314-13-2)

Bioaccumulative potential	No additional information available.
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12.4. Mobility in soil

Vaeprimer L	
Surface tension	No data available
Ecology - soil	No information available.

12.5. Results of PBT and vPvB assessment

Vaeprimer L	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

Component	
ethylbenzene (100-41-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

12.7. Other adverse effects


Additional information : No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Handle with care. Reference to other sections 7: Handling and storage . Do not allow to enter into surface water or drains. Dispose of contaminated materials in accordance with current regulations. Refer to manufacturer/supplier for information on recovery/recycling. Collect and dispose of waste product at an authorised disposal facility.

Additional information : Delivery to an approved waste disposal company.






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European waste catalogue
(2001/573/EC, 75/442/EEC, 91/689/EEC)

: Classified as hazardous waste according to European Union regulations.
The following Waste Codes are only suggestions:
08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances,
08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09,
08 04 11*
(080411 - adhesive and sealant sludges containing organic solvents or other dangerous substances),
08 04 12
(adhesive and sealant sludges other than those mentioned in 08 04 11),
15 01 10* - packaging containing residues of or contaminated by dangerous substances .
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

SECTION 14: Transport information


In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1133	1133	1133	1133	1133
14.2. UN proper shipping name				
ADHESIVES	ADHESIVES	Adhesives	ADHESIVES	ADHESIVES
Transport document description				
UN 1133 ADHESIVES, 3, II, (D/E)	UN 1133 ADHESIVES, 3, II	UN 1133 Adhesives, 3, II	UN 1133 ADHESIVES, 3, II	UN 1133 ADHESIVES, 3, II
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
II	II	II	II	II
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F1
Special provisions : 640D
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E2
Packing instructions (ADR) : P001, IBC02, R001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19

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Portable tank and bulk container instructions (ADR) : T4
 Portable tank and bulk container special provisions (ADR) : TP1, TP8
 Tank code (ADR) : LGBF
 Vehicle for tank carriage : FL
 Transport category (ADR) : 2
 Special provisions for carriage - Operation (ADR) : S2, S20
 Hazard identification number (Kemler No.) : 33
 Orange plates :



Tunnel restriction code : D/E
 EAC code : •3YE

- Transport by sea


Limited quantities (IMDG) : 5 L
 Excepted quantities (IMDG) : E2
 Packing instructions (IMDG) : P001
 Special packing provisions (IMDG) : PP1
 IBC packing instructions (IMDG) : IBC02
 Tank instructions (IMDG) : T4
 Tank special provisions (IMDG) : TP1, TP8
 EmS-No. (Fire) : F-E
 EmS-No. (Spillage) : S-D
 Stowage category (IMDG) : B
 Properties and observations (IMDG) : Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.

- Air transport

PCA Excepted quantities (IATA) : E2
 PCA Limited quantities (IATA) : Y341
 PCA limited quantity max net quantity (IATA) : 1L
 PCA packing instructions (IATA) : 353
 PCA max net quantity (IATA) : 5L
 CAO packing instructions (IATA) : 364
 CAO max net quantity (IATA) : 60L
 Special provisions (IATA) : A3
 ERG code (IATA) : 3L

- Inland waterway transport

Classification code (ADN) : F1
 Special provisions (ADN) : 640D
 Limited quantities (ADN) : 5 L
 Excepted quantities (ADN) : E2

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Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 1

- Rail transport

Classification code (RID) : F1
Special provisions (RID) : 640D
Limited quantities (RID) : 5L
Excepted quantities (RID) : E2
Packing instructions (RID) : P001, IBC02, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP8
Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE7
Hazard identification number (RID) : 33

14.7. Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:


3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Vaeprimer L ; ethylbenzene ; n-butyl acetate ; Xylene
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Vaeprimer L ; ethylbenzene ; n-butyl acetate ; Xylene
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Vaeprimer L ; ethylbenzene ; n-butyl acetate ; Xylene

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 45 % (431,9 g/l)

15.1.2. National regulations


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France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
1435.3	3. Supérieur à 100 m3 d'essence ou 500 m3 au total, mais inférieur ou égal à 20 000 m3 Nota.-Les débits sont exprimés pour une température de gaz de 273,15 K à une pression de 101,325 kPa.	DC	
4330.text	Liquides inflammables de catégorie 1, liquides inflammables maintenus à une température supérieure à leur point d'ébullition, autres liquides de point éclair inférieur ou égal à 60° C maintenus à une température supérieure à leur température d'ébullition ou dans des conditions particulières de traitement, telles qu'une pression ou une température élevée (1).		
4330.1	La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant : 1. Supérieure ou égale à 10 t (1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie. Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t.	A	2
4330.2	La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant : 2. Supérieure ou égale à 1 t mais inférieure à 10 t (1) Conformément à la section 2.6.4.5 de l'annexe I du règlement (CE) n° 1272/2008, il n'est pas nécessaire de classer les liquides ayant un point d'éclair supérieur à 35° C dans la catégorie 3 si l'épreuve de combustion entretenue du point L 2, partie III, section 32, du Manuel d'épreuves et de critères des Nations unies a donné des résultats négatifs. Toutefois, cette remarque n'est pas valable en cas de température ou de pression élevée, et ces liquides doivent alors être classés dans cette catégorie. Quantité seuil bas au sens de l'article R. 511-10 : 10 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 t.	DC	
4331.text	Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330. La quantité totale susceptible d'être présente dans les installations y compris dans les cavités souterraines étant :		
4331.1	1. Supérieure ou égale à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	A	2
4331.2	2. Supérieure ou égale à 100 t mais inférieure à 1000 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	E	
4331.3	3. Supérieure ou égale à 50 t mais inférieure à 100 t Quantité seuil bas au sens de l'article R. 511-10 : 5 000 t. Quantité seuil haut au sens de l'article R. 511-10 : 50 000 t.	DC	

Germany

Regulatory reference : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

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Risk classification according to VbF : A II - Liquids with a flashpoint between 21°C and 55°C
 Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

Waterbezwaarlijkheid : B (5) - Weinig schadelijk voor in het water levende organismen
 Saneringsinspanningen : B - Lozing minimaliseren; toepassen van best uitvoerbare technieken
 SZW-lijst van kankerverwekkende stoffen : None of the components are listed
 SZW-lijst van mutagene stoffen : None of the components are listed
 SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
 SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
 SZW-lijst van reprotoxische stoffen – Ontwikkeling : Xylene is listed

Denmark

Class for fire hazard : Class II-1
 Store unit : 5 liter
 Classification remarks : R10 <H226;H315;H319;H336;H373>; Emergency management guidelines for the storage of flammable liquids must be followed
 Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
 Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment


For the following substances of this mixture a chemical safety assessment has been carried out:

For the following substances of this mixture a chemical safety assessment has been carried out
n-butyl acetate Xylene ethylbenzene zinc oxide

SECTION 16: Other information

Indication of changes:

3.2	Composition	Modified	
5.2	Explosion hazard	Modified	
5.2	Hazardous decomposition products in case of fire	Modified	
7.2	Incompatible substances or mixtures	Modified	
8.2	Respiratory protection	Modified	
9.1	Auto-ignition temperature	Modified	
9.1	Vapour pressure	Modified	

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9.1	Dynamic viscosity	Added	
9.2	UN Gap Test	Modified	
9.2	Other safety characteristics	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Modified	
12.7	Other adverse effects	Added	
14.1	UN-No. (ADN)	Added	
14.7	Code: IBC	Added	

Abbreviations and acronyms:

	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	EC50 = Median Effective Concentration
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	TLV = Threshold limits
	TWA = time weighted average
	STEL = Short term exposure limit
	persistent, bioaccumulating and toxic (PBT).
	vPvB = very persistent and very bioaccumulating
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)


Sources of key data used to compile the : MSDS supplier. ECHA (European Chemicals Agency). datasheet

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Assessment/classification CLP. Article 9. Calculation method. Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
EUH208	Contains rosin; colophony. May produce an allergic reaction.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.

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H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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