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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 : KEM-VE M8, KEM-VE M10, KEM-VE M12, KEM-VE M16, KEM-VE M20, KEM-VE M24, KEM-VE M30
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 use, Professional use
Use of the substance/mixture : Building and construction work

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Sormat Oy
Harjutie 5 FIN 21290
Rusko
Finland
Telephonenumber: +358 207 940 200
Email: sormat@sormat.com

1.4. Emergency telephone number

Emergency number : +358 (9) 471 977, Poison Information Centre, Haartmaninkatu 4, FI-00290 Helsinki, Finland

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
Acute Tox. 4 (Oral) H302
Skin Irrit. 2 H315
Eye Irrit. 2 H319
Skin Sens. 1 H317
Repr. 2 H361d
STOT RE 1 H372
Aquatic Chronic 2 H411


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

2.2. Label elements

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

Hazard pictograms (CLP) :



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GHS02 GHS07 GHS08 GHS09

Signal word	: Danger
Contains	: Styrene, Dibenzoyl peroxide, 1,1'-(p-tolylimino)dipropan-2-ol, Methacrylic acid
Hazard statements (CLP)	: H226 - Flammable liquid and vapour. H302 - Harmful if swallowed. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H361d - Suspected of damaging the unborn child. H372 - Causes damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P391 - Collect spillage. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents to an approved waste disposal plant.

2.3. Other hazards

Other hazards	: Vapours can form explosive mixtures with air. Results of PBT and vPvB assessment : Contains no PBT/vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII.
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Component	
Styrene (100-42-5)	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
ethylene dibenzoate (94-49-5)	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
Dibenzoyl peroxide (94-36-0)	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

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3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Styrene	(CAS-No.) 100-42-5 (EC-No.) 202-851-5 (EC Index) 601-026-00-0 (REACH-no) 01-2119457861-32-xxxx	1 – 12,5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
ethylene dibenzoate	(CAS-No.) 94-49-5 (EC-No.) 202-338-6 (REACH-no) 01-2120759933-41-xxxx	0 – 1,5	Aquatic Chronic 2, H411
Dibenzoyl peroxide	(CAS-No.) 94-36-0 (EC-No.) 202-327-6 (EC Index) 617-008-00-0 (REACH-no) 01-2119511472-50-xxxx	0,5 - <2,5	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
1,1'-(p-tolylimino)dipropan-2-ol	(CAS-No.) 38668-48-3 (EC-No.) 254-075-1	0 - 0,75	Acute Tox. 2 (Oral), H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Methacrylic acid	(CAS-No.) 79-41-4 (EC-No.) 201-204-4 (EC Index) 607-088-00-5	0 – 0,1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 STOT SE 3, H335

Specific concentration limits:

Substance name	Product identifier	Specific concentration limits
Methacrylic acid	(CAS-No.) 79-41-4 (EC-No.) 201-204-4 (EC Index) 607-088-00-5	(1 ≤C < 100) STOT SE 3, H335

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!. Show this safety data sheet to the doctor in attendance. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth thoroughly with water. Get medical advice/attention.

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

Inhalation	: No adverse effects are expected. May be irritating.
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Skin contact	: May cause an allergic skin reaction. Causes skin irritation.
Eyes contact	: Causes serious eye irritation.
Ingestion	: Harmful if swallowed.
Chronic symptoms	: Causes damage to organs through prolonged or repeated exposure. Suspected of damaging the unborn child.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: carbon dioxide (CO ₂), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Flammable liquid and vapour. Heating will cause a rise in pressure with a risk of bursting. 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	: Burning produces noxious and toxic fumes. (CO _x).

5.3. Advice for firefighters

Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

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	: Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.
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6.1.2. For emergency responders

For emergency responders	: Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.
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6.2. Environmental precautions

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

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation. Cover the spilled liquid product with foam to slow down evaporation.

6.4. Reference to other sections

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

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. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Storage of flammable liquids. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Incompatible materials : Strong acids, strong oxidants. Strong bases.

Storage temperature : < 25 °C

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Keep out of direct sunlight.

Special rules on packaging : Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep container tight closed.

Packaging materials : Keep only in the original container.

7.3. Specific end use(s)

Building and construction work.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Styrene (100-42-5)		
Austria	MAK (OEL TWA)	85 mg/m ³
Austria	MAK (OEL TWA) [ppm]	20 ppm
Austria	MAK (OEL STEL)	340 mg/m ³
Austria	MAK (OEL STEL) [ppm]	80 ppm
Belgium	OEL TWA	108 mg/m ³
Belgium	OEL TWA [ppm]	25 ppm
Belgium	OEL STEL	346 mg/m ³
Belgium	OEL STEL [ppm]	80 ppm
Bulgaria	OEL TWA	85 mg/m ³
Bulgaria	OEL STEL	215 mg/m ³
Croatia	GVI (OEL TWA) [1]	430 mg/m ³
Croatia	GVI (OEL TWA) [2]	100 ppm
Croatia	KGVI (OEL STEL)	1080 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	250 ppm
Czech Republic	PEL (OEL TWA)	100 mg/m ³
Denmark	OEL C [ppm]	25 ppm
Denmark	OEL C	105 mg/m ³
Estonia	OEL TWA	90 mg/m ³
Estonia	OEL TWA [ppm]	20 ppm
Estonia	OEL STEL	200 mg/m ³
Estonia	OEL STEL [ppm]	50 ppm
Finland	HTP (OEL TWA) [1]	86 mg/m ³
Finland	HTP (OEL TWA) [2]	20 ppm
Finland	HTP (OEL STEL)	430 mg/m ³
Finland	HTP (OEL STEL) [ppm]	100 ppm
France	VME (OEL TWA)	100 mg/m ³ (indicative limit)
France	VME (OEL TWA) [ppm]	23,3 ppm (indicative limit)
France	VLE (OEL C/STEL)	200 mg/m ³ (indicative limit)
France	VLE (OEL C/STEL) [ppm]	46,6 ppm (indicative limit)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	86 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	600 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of shift 600 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts
Greece	OEL TWA	425 mg/m ³
Greece	OEL TWA [ppm]	100 ppm
Greece	OEL STEL	1050 mg/m ³

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Styrene (100-42-5)		
Greece	OEL STEL [ppm]	250 ppm
Hungary	AK (OEL TWA)	86 mg/m ³
Hungary	CK (OEL STEL)	50 mg/m ³
Ireland	OEL TWA [1]	85 mg/m ³
Ireland	OEL TWA [2]	20 ppm
Ireland	OEL STEL	170 mg/m ³
Ireland	OEL STEL [ppm]	40 ppm
Latvia	OEL TWA	10 mg/m ³
Lithuania	IPRV (OEL TWA)	90 mg/m ³
Lithuania	IPRV (OEL TWA) [ppm]	20 ppm 10 ppm (for planning of new facilities or replacing the old ones)
Lithuania	TPRV (OEL STEL)	200 mg/m ³
Lithuania	TPRV (OEL STEL) [ppm]	50 ppm
Poland	NDS (OEL TWA)	50 mg/m ³
Poland	NDSch (OEL STEL)	100 mg/m ³
Portugal	OEL TWA [ppm]	20 ppm
Portugal	OEL STEL [ppm]	40 ppm
Romania	OEL TWA	50 mg/m ³
Romania	OEL TWA [ppm]	12 ppm
Romania	OEL STEL	150 mg/m ³
Romania	OEL STEL [ppm]	35 ppm
Slovakia	NPHV (OEL TWA) [1]	86 mg/m ³
Slovakia	NPHV (OEL TWA) [2]	20 ppm
Slovakia	NPHV (OEL C)	200 mg/m ³
Slovenia	OEL TWA	86 mg/m ³
Slovenia	OEL TWA [ppm]	20 ppm
Slovenia	OEL STEL	172 mg/m ³
Slovenia	OEL STEL [ppm]	40 ppm
Spain	VLA-ED (OEL TWA) [1]	86 mg/m ³ (endocrine disruptor)
Spain	VLA-ED (OEL TWA) [2]	20 ppm (endocrine disruptor)
Spain	VLA-EC (OEL STEL)	172 mg/m ³
Spain	VLA-EC (OEL STEL) [ppm]	40 ppm
Sweden	NGV (OEL TWA)	43 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	10 ppm
Sweden	KTV (OEL STEL)	86 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	20 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	430 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	100 ppm
United Kingdom	WEL STEL (OEL STEL)	1080 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	250 ppm

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Styrene (100-42-5)		
Norway	Grenseverdi (OEL TWA) [1]	105 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	25 ppm
Norway	Korttidsverdi (OEL STEL)	131,25 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	37,5 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	85 mg/m ³
Switzerland	MAK (OEL TWA) [2]	20 ppm
Switzerland	KZGW (OEL STEL)	170 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	40 ppm
Australia	OES TWA [1]	213 mg/m ³
Australia	OES TWA [2]	50 ppm
Australia	OES STEL	426 mg/m ³
Australia	OES STEL [ppm]	100 ppm
Canada (Quebec)	VECD (OEL STEL)	426 mg/m ³
Canada (Quebec)	VECD (OEL STEL) [ppm]	100 ppm
Canada (Quebec)	VEMP (OEL TWA)	213 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	50 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	10 ppm
USA - ACGIH	ACGIH OEL STEL [ppm]	20 ppm
USA - IDLH	IDLH [ppm]	700 ppm
USA - NIOSH	NIOSH REL TWA	215 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	50 ppm
USA - NIOSH	NIOSH REL STEL	425 mg/m ³
USA - NIOSH	NIOSH REL STEL [ppm]	100 ppm
USA - OSHA	OSHA PEL TWA [2]	100 ppm
USA - OSHA	OSHA PEL C [ppm]	200 ppm
Dibenzoyl peroxide (94-36-0)		
Austria	MAK (OEL TWA)	5 mg/m ³ (inhalable fraction)
Austria	MAK (OEL STEL)	10 mg/m ³ (inhalable fraction)
Belgium	OEL TWA	5 mg/m ³
Croatia	GVI (OEL TWA) [1]	5 mg/m ³
Czech Republic	PEL (OEL TWA)	5 mg/m ³
Denmark	OEL TWA [1]	5 mg/m ³
Estonia	OEL TWA	5 mg/m ³
Finland	HTP (OEL TWA) [1]	5 mg/m ³
Finland	HTP (OEL STEL)	10 mg/m ³
France	VME (OEL TWA)	5 mg/m ³
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	5 mg/m ³ (inhalable fraction)
Greece	OEL TWA	5 mg/m ³
Hungary	AK (OEL TWA)	5 mg/m ³
Hungary	CK (OEL STEL)	5 mg/m ³

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Dibenzoyl peroxide (94-36-0)		
Ireland	OEL TWA [1]	5 mg/m ³
Ireland	OEL STEL	15 mg/m ³ (calculated)
Poland	NDS (OEL TWA)	5 mg/m ³
Poland	NDSch (OEL STEL)	10 mg/m ³
Portugal	OEL TWA	5 mg/m ³
Slovakia	NPHV (OEL TWA) [1]	5 mg/m ³
Slovenia	OEL TWA	5 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL	5 mg/m ³ (inhalable fraction)
Spain	VLA-ED (OEL TWA) [1]	5 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [1]	5 mg/m ³
United Kingdom	WEL STEL (OEL STEL)	15 mg/m ³ (calculated)
Norway	Grenseverdi (OEL TWA) [1]	5 mg/m ³
Norway	Korttidsverdi (OEL STEL)	10 mg/m ³ (value calculated)
Switzerland	MAK (OEL TWA) [1]	5 mg/m ³ (inhalable dust)
Switzerland	KZGW (OEL STEL)	5 mg/m ³ (inhalable dust)
Australia	OES TWA [1]	5 mg/m ³
Canada (Quebec)	VEMP (OEL TWA)	5 mg/m ³
USA - ACGIH	ACGIH OEL TWA	5 mg/m ³
USA - IDLH	IDLH	1500 mg/m ³
USA - NIOSH	NIOSH REL TWA	5 mg/m ³
USA - OSHA	OSHA PEL TWA [1]	5 mg/m ³
Methacrylic acid (79-41-4)		
Austria	MAK (OEL TWA)	70 mg/m ³
Austria	MAK (OEL TWA) [ppm]	20 ppm
Belgium	OEL TWA	71 mg/m ³
Belgium	OEL TWA [ppm]	20 ppm
Bulgaria	OEL TWA	70 mg/m ³
Croatia	GVI (OEL TWA) [1]	72 mg/m ³
Croatia	GVI (OEL TWA) [2]	20 ppm
Croatia	KGVI (OEL STEL)	143 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	40 ppm
Denmark	OEL TWA [1]	70 mg/m ³
Denmark	OEL TWA [2]	20 ppm
Estonia	OEL TWA	70 mg/m ³
Estonia	OEL TWA [ppm]	20 ppm
Estonia	OEL STEL	100 mg/m ³
Estonia	OEL STEL [ppm]	30 ppm
Finland	HTP (OEL TWA) [1]	71 mg/m ³
Finland	HTP (OEL TWA) [2]	20 ppm
France	VME (OEL TWA)	70 mg/m ³
France	VME (OEL TWA) [ppm]	20 ppm

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Methacrylic acid (79-41-4)		
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	180 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)	50 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece	OEL TWA	70 mg/m ³
Greece	OEL TWA [ppm]	20 ppm
Greece	OEL STEL	140 mg/m ³
Greece	OEL STEL [ppm]	40 ppm
Ireland	OEL TWA [1]	70 mg/m ³
Ireland	OEL TWA [2]	20 ppm
Ireland	OEL STEL	140 mg/m ³
Ireland	OEL STEL [ppm]	40 ppm
Latvia	OEL TWA	10 mg/m ³
Lithuania	IPRV (OEL TWA)	70 mg/m ³
Lithuania	IPRV (OEL TWA) [ppm]	20 ppm
Lithuania	TPRV (OEL STEL)	100 mg/m ³
Lithuania	TPRV (OEL STEL) [ppm]	30 ppm
Portugal	OEL TWA [ppm]	20 ppm
Romania	OEL TWA	30 mg/m ³
Romania	OEL TWA [ppm]	8,5 ppm
Romania	OEL STEL	45 mg/m ³
Romania	OEL STEL [ppm]	13 ppm
Slovenia	OEL TWA	180 mg/m ³
Slovenia	OEL TWA [ppm]	50 ppm
Slovenia	OEL STEL	360 mg/m ³
Slovenia	OEL STEL [ppm]	100 ppm
Spain	VLA-ED (OEL TWA) [1]	72 mg/m ³
Spain	VLA-ED (OEL TWA) [2]	20 ppm
Sweden	NGV (OEL TWA)	70 mg/m ³
Sweden	NGV (OEL TWA) [ppm]	20 ppm
Sweden	KTV (OEL STEL)	100 mg/m ³
Sweden	KTV (OEL STEL) [ppm]	30 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	72 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	20 ppm
United Kingdom	WEL STEL (OEL STEL)	143 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	40 ppm
Norway	Grenseverdi (OEL TWA) [1]	70 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	20 ppm
Norway	Korttidsverdi (OEL STEL)	105 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	30 ppm (value calculated)

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Methacrylic acid (79-41-4)		
Switzerland	MAK (OEL TWA) [1]	180 mg/m ³
Switzerland	MAK (OEL TWA) [2]	50 ppm
Switzerland	KZGW (OEL STEL)	360 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	100 ppm
Australia	OES TWA [1]	70 mg/m ³
Australia	OES TWA [2]	20 ppm
Canada (Quebec)	VEMP (OEL TWA)	70 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	20 ppm
USA - ACGIH	ACGIH OEL TWA [ppm]	20 ppm
USA - NIOSH	NIOSH REL TWA	70 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	20 ppm

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

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. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling. Take precautionary measures against static discharge. Ensure equipment is adequately earthed. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection : Wear chemically resistant gloves (tested to EN374) . Impervious gloves. 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. Breakthrough time : hours (>8). VITON gloves. Thickness of the glove material: 0,7 mm. Breakthrough time : hours (>2). Butyl rubber. Breakthrough time : hours (<1). Chloroprene. Nitrile rubber. Thickness 0,11 mm


Eye protection : Use suitable eye protection (EN166): goggles

Body protection : Wear suitable protective clothing. Long sleeved clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. full face mask (DIN EN 136). Half-face mask (DIN EN 140). Filter type: A (EN 14387). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)

Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls : Do not allow to enter into surface water or drains. Comply with applicable Community environmental protection legislation. Avoid release to the environment.

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SECTION 9: Physical and chemical properties


9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: capsules.
Colour	: Colourless.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: No data available
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	: No data available
Flash point	: 31 °C Resin
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Not applicable,liquid
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Solubility	: Water: Insoluble
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: 420 – 520 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. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: No data available
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

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9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air. heat : Polymerisation can occur.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. See Section 7 for information on safe handling.

10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses. Burning produces noxious and toxic fumes. (COx). Reference to other sections 5.2.

SECTION 11: Toxicological information

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

Acute toxicity : Harmful if swallowed.

ATE CLP (oral)	980,392 mg/kg bodyweight
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Styrene (100-42-5)	
LD50/oral/rat	1000 mg/kg
LD50/dermal/rat	> 2000 mg/kg
LC50/inhalation/4h/rat	11,8 mg/l

Dibenzoyl peroxide (94-36-0)	
LD50/oral/rat	7710 mg/kg

ethylene dibenzoate (94-49-5)	
LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rat	> 2000 mg/kg


1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LD50/dermal/rat	> 2000 mg/kg

Methacrylic acid (79-41-4)	
LD50/oral/rat	1060 mg/kg
LD50/dermal/rabbit	500 – 1000 mg/kg
LC50/inhalation/4h/rat	7,1 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
pH: No data available

Serious eye damage/irritation : Causes serious eye irritation.
pH: No data available

Respiratory or skin sensitisation : May cause an allergic skin reaction.

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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	: Suspected of damaging the unborn child.
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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Kinematic viscosity	No data available

Other adverse effects	: Causes damage to organs through prolonged or repeated exposure. Suspected of damaging the unborn child.
Other information	: Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects 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 %
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11.2.2 Other information


Other adverse effects	: Causes damage to organs through prolonged or repeated exposure, Suspected of damaging the unborn child.
Other information	: Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

Styrene (100-42-5)	
LC50 - Fish [1]	3,24 – 4,99 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 - Fish [2]	19,03 – 33,53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 - Other aquatic organisms [2]	500 mg/l Bacteria
EC50 - Crustacea [1]	3,3 – 7,4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Other aquatic organisms [1]	1,4 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
EC50 - Other aquatic organisms [2]	0,72 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)

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EC50 72h - Algae [1]	1,4 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [2]	0,46 – 4,3 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	0,72 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 96h - Algae [2]	0,15 – 3,2 mg/l (Species: Pseudokirchneriella subcapitata [static])
NOEC (acute)	44 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])
NOEC (additional information)	NOEC, Daphnia : 1,01 mg/l (21d)

Dibenzoyl peroxide (94-36-0)	
LC50 - Fish [1]	0,0602 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])

ethylene dibenzoate (94-49-5)	
LC50 - Fish [1]	> 0,434 mg/l Brachydanio rerio (zebra-fish)
EC50 - Crustacea [1]	1,4 mg/l
EC50 - Other aquatic organisms [1]	> 1280 mg/l Activated sludge
ErC50 algae	> 0,87 mg/l Pseudokirchneriella subcapitata (green algae)
NOEC chronic fish	0,073 mg/l Brachydanio rerio (zebra-fish)
NOEC chronic algae	0,045 mg/l Pseudokirchneriella subcapitata (green algae)

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LC50 - Fish [1]	17 mg/l (Exposure time: 96 h - Species: Danio rerio [static])

Methacrylic acid (79-41-4)	
LC50 - Fish [1]	85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

12.2. Persistence and degradability

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Persistence and degradability	No additional information available.


Styrene (100-42-5)	
Biodegradation	Readily biodegradable

Dibenzoyl peroxide (94-36-0)	
Persistence and degradability	Readily biodegradable.

ethylene dibenzoate (94-49-5)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No additional information available.

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Styrene (100-42-5)	
BCF - Fish [1]	13,5
Partition coefficient n-octanol/water	2,95
Bioaccumulative potential	Does not bioaccumulate.

Dibenzoyl peroxide (94-36-0)	
Partition coefficient n-octanol/water	3,2 (at 22 °C (at pH 7.02))
Bioaccumulative potential	Low potential.

ethylene dibenzoate (94-49-5)	
Bioconcentration factor (BCF)	2,74
Partition coefficient n-octanol/water	3,75 (at 30 °C (at pH 7.7))
Bioaccumulative potential	Low potential.

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
Partition coefficient n-octanol/water	2,1 (at 24 °C (at pH 7.3-7.5))

Methacrylic acid (79-41-4)	
Partition coefficient n-octanol/water	0,93 (at 22 °C (at pH 2.2))

12.4. Mobility in soil


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Mobility in soil	No data available
Ecology - soil	No data available.

Styrene (100-42-5)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	352 (20°C)

12.5. Results of PBT and vPvB assessment

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

Component	
Styrene (100-42-5)	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

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ethylene dibenzoate (94-49-5)	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
Dibenzoyl peroxide (94-36-0)	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

Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods


Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product : Do not pierce or burn, even after use. Never use pressure to empty container.






European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities
The following Waste Codes are only suggestions:
150110* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
1866	1866	1866	1866	1866
14.2. UN proper shipping name				
RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)	Resin solution (Styrene)	RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)
Transport document description				
UN 1866 RESIN SOLUTION (Styrene), 3, III, (D/E)	UN 1866 RESIN SOLUTION (Styrene), 3, III	UN 1866 Resin solution (Styrene), 3, III	UN 1866 RESIN SOLUTION (Styrene), 3, III	UN 1866 RESIN SOLUTION (Styrene), 3, III

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ADR	IMDG	IATA	ADN	RID
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.				
Not restricted for transport by rail, overland and sea according ADR/RID chapter 2.2.3.15 and IMDG 2.3.2.5				

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

Transport regulations (ADR) : No good of class 3 according to ADR/RID chapter 2.2.3.1.5

Classification code (ADR) : F1

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T2

Portable tank and bulk container special provisions (ADR) : TP1

Tank code (ADR) : LGBF


Vehicle for tank carriage : FL

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V12


Special provisions for carriage - Operation (ADR) : S2

Hazard identification number (Kemler No.) : 30

Orange plates : 

Tunnel restriction code : D/E

EAC code : •3Y

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- Transport by sea

Transport regulations (IMDG)	: If shipped by vessel in quantities LESS than 30L, IMDG 2.3.2.5 exception applies: Not regulated as a hazardous material. State on shipping documents: "Transport in accordance with 2.3.2.5 of the IMDG code."
Special provisions (IMDG)	: 223, 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Miscibility with water depends upon the composition.

- Air transport


PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

- Inland waterway transport

Transport regulations (ADN)	: Not applicable (cf. 2.2.3.1.5)
Classification code (ADN)	: F1
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

- Rail transport

Transport regulations (RID)	: No good of class 3 according to ADR/RID chapter 2.2.3.1.5
Classification code (RID)	: F1
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19

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Portable tank and bulk container instructions (RID) : T2

Portable tank and bulk container special provisions (RID) : TP1

Tank codes for RID tanks (RID) : LGBF

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Colis express (express parcels) (RID) : CE4

Hazard identification number (RID) : 30

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

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	Styrene
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	Styrene ; 1,1'-(p-tolylimino)dipropan-2-ol ; Methacrylic acid
3(c) 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 class 4.1	Styrene ; 1,1'-(p-tolylimino)dipropan-2-ol
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.	Styrene


Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
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	

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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	
4511.text	Dangereux pour l'environnement aquatique de catégorie chronique 2.		
4511.1	La quantité totale susceptible d'être présente dans l'installation étant : 1. Supérieure ou égale à 200 t Quantité seuil bas au sens de l'article R. 511-10 : 200 t. Quantité seuil haut au sens de l'article R. 511-10 : 500 t.	A	1
4511.2	La quantité totale susceptible d'être présente dans l'installation étant : 2. Supérieure ou égale à 100 t mais inférieure à 200 t Quantité seuil bas au sens de l'article R. 511-10 : 200 t. Quantité seuil haut au sens de l'article R. 511-10 : 500 t.	DC	

Germany

Regulatory reference	: WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)
Risk classification according to VbF	: A II - Liquids with a flashpoint between 21°C and 55°C
German storage class (LGK)	: LGK 3 - Flammable liquids
Hazardous Incident Ordinance (12. BImSchV)	: Listed in the 12. BImSchV (Annex I) under: 1.2.5.2 Quantity threshold for operational area under § 1 para. 1 - Sentence 1: 50000 kg - Sentence 2: 200000 kg Listed in the 12. BImSchV (Annex I) under: 1.3.2 Quantity threshold for operational area under § 1 para. 1 - Sentence 1: 200000 kg - Sentence 2: 500000 kg

Netherlands

Waterbezwaarlijkheid	: categorie Z(1) - niet-afbreekbare stoffen met gevaarlijke eigenschappen voor mens en milieu (carcinogeniteit/ mutageniteit/ reprotoxiciteit/ bioacumulerend vermogen/ toxiciteit of persistentie)
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	: Styrene is listed

Denmark

Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	: R10 <H226;H302;H315;H317;H319;H361d;H372;H411>; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Norway

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This safety datasheet has been prepared according to Norwegian legislation.

: FOR 2002-07-16 nr 1139: Forskrift om klassifisering, merking mv. av farlige kjemikalier; Forskrift om klassifisering, merking og emballering av stoffer og stoffblandinger (CLP); FOR 2008-05-30 nr 516: Forskrift om registrering, vurdering, godkjenning og begrensning av kjemikalier (REACH-forskriften)

Poland

This safety datasheet has been prepared according to Polish legislation.

: Not applicable

15.2. Chemical safety assessment

Not applicable

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

Styrene
Dibenzoyl peroxide
ethylene dibenzoate
Methacrylic acid

SECTION 16: Other information

Indication of changes:

1.2	Main use category	Added	
2.2	Precautionary statements (CLP)	Modified	
2.3	ED text	Added	
3	Composition/information on ingredients	Modified	
7.1	Precautions for safe handling	Modified	
7.1	Hygiene measures	Modified	
7.2	Special rules on packaging	Added	
7.3	Specific end use(s)	Added	
9.2	Information with regard to physical hazard classes	Added	
9.2	Other safety characteristics	Added	
10.4	Conditions to avoid	Added	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.1	Environmental properties	Modified	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
14.1	UN number or ID number	Added	
14.7	Maritime transport in bulk according to IMO instruments	Added	
15.1	Installations classées	Modified	
15.1	12th Ordinance Implementing the	Added	

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	Federal Immission Control Act - 12.BImSchV		
15.1	Waterbezwaarlijkheid	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
	Not applicable
	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)
	ABM = Algemene beoordelingsmethodiek
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LL50 = Median lethal level
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	VOC = Volatile organic compounds

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency). LOLI. Additional information : Manufacturer/Supplier.

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

Other information : Classification - Assessment method: CLP Calculation method (Article 9).


Full text of H- and EUH-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
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Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), 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
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H241	Heating may cause a fire or explosion.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
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.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Org. Perox. B	Organic Peroxides, Type B
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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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		Document number: 1405038

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