

SAFETY DATA SHEET

According to Annex II to REACH - Regulation 2015/830

EHE01 Dual component system in glass capsule for anchorage in construction materials, Vinilester-based resin



Revision n. 07.1
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(Dated: 21/11/2023)

1 - Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	Mixture
Trade name	EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30
UFI CODE	HM00-G0G1-600F-9F0V
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

Name	Bossard AG
Full Address	Steinhauserstrasse 70
District and Country	CH-6301 Zug
e-mail	+41 41 749 66 11
(of the competent person responsible for the Safety Data Sheet)	bossard@bossard.com
	www.bossard.com

1.4. Emergency telephone number

Emergency number	EN: +49 (0)551-19240 (GIZ-Nord, German and English, 24/7) DE: Schweiz: 145 Int.: +41 44 251 51 51 (Schweizerisches Toxikologisches Informationszentrum - 24 h) IT: Svizzera: 145 Int.: +41 44 251 51 51 (Il Centro svizzero d'informazione tossicologica - 24 ore su 24) FR: Tox Info Suisse: 145 Int.: +41 44 251 51 51 (Le Centre Suisse d'Information Toxicologique - 24h sur 24h)
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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

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2.2. Label elements

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

Hazard pictograms (CLP)



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 %

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3. Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Identification	x=Conc. %	Classification 1272/2008 (CLP)
Styrene CAS 100-42-5 CE 202-851-5 INDEX 601-026-00-0 REACH-no 01-2119457861-32-xxxx	1 ≤ x ≤ 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 94-49-5 CE 202-338-6 REACH-no 01-2120759933-41-xxxx	0 ≤ x ≤ 1,5	Aquatic Chronic 2, H411
Dibenzoyl peroxide CAS 94-36-0 CE 202-327-6 INDEX 617-008-00-0 REACH-no 01-2119511472-50-xxxx	0,5 ≤ x < 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 38668-48-3 CE 254-075-1	0 ≤ x ≤ 0,75	Acute Tox. 2 (per via orale), H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
Methacrylic acid CAS 79-41-4 CE 201-204-4 INDEX 607-088-00-5	0 ≤ x ≤ 0,1	Acute Tox. 4 (per via orale), H302 Acute Tox. 3 (per via cutanea), H311 Acute Tox. 4 (per inalazione), H332 Skin Corr. 1A, H314 STOT SE 3, H335

Specific concentration limits:

Substance name	Product identifier	Specific concentration limits
Methacrylic acid	CAS 79-41-4 CE 201-204-4 INDEX 607-088-00-5	(1 ≤ C < 100) STOT SE 3, H335

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

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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.
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.

5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA: carbon dioxide (CO₂), 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. (COx).

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.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. 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.

6.1.2. For emergency responders

Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 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 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.

7. Handling and storage

7.1. 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.

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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.

8. Exposure controls/personal protection

8.1. Control parameters

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 Ceiling [ppm]	25 ppm
Denmark	OEL C	105 mg/m ³

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Styrene (100-42-5)

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
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

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Styrene (100-42-5)

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

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Styrene (100-42-5)

United Kingdom	WEL STEL (OEL STEL)	1080 mg/m ³
United Kingdom	WEL STEL (OEL STEL) [ppm]	250 ppm
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

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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
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

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Dibenzoyl peroxide (94-36-0)

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
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

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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

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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)
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

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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.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid	Solubility	Water: Insoluble
Appearance	capsules	Partition coefficient n-octanol/water	No data available
Colour	Colourless	Kinematic viscosity	No data available
Odour	Characteristic	Dynamic viscosity	390 - 490 mPa.s
Odour threshold	No data available	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.
pH	No data available	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.
Relative evaporation rate (butylacetate=1)	No data available	Explosive limits	No data available
Melting / freezing point	No data available	Particle size	Not applicable
Freezing point	No data available	Particle size distribution	Not applicable
Initial boiling point and boiling range	No data available	Particle shape	Not applicable
Flash point	33 °C Resin	Particle aspect ratio	Not applicable
Auto-ignition temperature	No data available	Particle aggregation state	Not applicable
Decomposition temperature	No data available	Particle agglomeration state	Not applicable
Flammability	Not applicable, liquid	Particle specific surface area	Not applicable
Vapour pressure	No data available	Particle dustiness	Not applicable
Vapour density	No data available		
Relative density	No data available		

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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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.

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
----------------	--------------------------

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
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ethylene dibenzoate (94-49-5)

LD50/oral/rat	> 2000 mg/kg
LD50/dermal/rat	> 2000 mg/kg

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1,1'-(p-tolylimino)dipropen-2-ol (38668-48-3)

LD50/dermal/rat > 2000 mg/kg

Acido metacrilico (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.
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)

EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30

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

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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)
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, Dafnia : 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])
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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)dipropen-2-ol (38668-48-3)

LC50 - Fish [1]	17 mg/l (Exposure time: 96 h - Species: Danio rerio [static])
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Methacrylic acid (79-41-4)

LC50 - Fish [1]	85 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
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12.2. Persistence and degradability

EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30

Persistence and degradability	No additional information available.
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Styrene (100-42-5)

Biodegradation	Readily biodegradable
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Dibenzoyl peroxide (94-36-0)

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

Persistence and degradability	Readily biodegradable
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12.3. Bioaccumulative potential

EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30

Partition coefficient n-octanol/water	No data available
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Bioaccumulative potential	No additional information available.
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Styrene (100-42-5)

BCF Fish 1	13,5
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Partition coefficient n-octanol/water	2,95
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Bioaccumulative potential	Does not bioaccumulate.
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Dibenzoyl peroxide (94-36-0)

Partition coefficient n-octanol/water	3,2 (at 22 °C (at pH 7.02)
---------------------------------------	----------------------------

Bioaccumulative potential	Low potential.
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ethylene dibenzoate (94-49-5)

Bioconcentration factor (BCF)	2,74
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Partition coefficient n-octanol/water	3,75 (at 30 °C (at pH 7.7)
---------------------------------------	----------------------------

Bioaccumulative potential	Low potential.
---------------------------	----------------

1,1'-(p-tolylimino)dipropen-2-ol (38668-48-3)

Partition coefficient n-octanol/water	2,1 (at 24 °C (at pH 7.3-7.5)
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Methacrylic acid (79-41-4)

Partition coefficient n-octanol/water	0,93 (at 22 °C (at pH 2.2)
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12.4. Mobility in soil

EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30

Mobility in soil	No data available
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Ecology - soil	No data available
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Styrene (100-42-5)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	352 (20°C)
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12.5. Results of PBT and vPvB assessment

EHE 01 M8, EHE 01 M10, EHE 01 M12, EHE 01 M14, EHE 01 M16, EHE 01 M20, EHE 01 M22, EHE 01 M24, EHE 01 M30

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
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 %
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12.7. Other adverse effects

Other adverse effects	No data available
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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

14. Transport information

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

14.1. UN number or ID number

ADR	IMDG	IATA	ADN	RID
1866	1866	1866	1866	1866

14.2. UN proper shipping name

ADR	IMDG	IATA	ADN	RID
RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)

Transport document description

ADR	IMDG	IATA	ADN	RID
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

14.3. Transport hazard class(es)

ADR	IMDG	IATA	ADN	RID
3	3	3	3	3
				

14.4. Packing group

ADR	IMDG	IATA	ADN	RID
III	III	III	III	III

14.5. Environmental hazards

ADR	IMDG	IATA	ADN	RID
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

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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	30 1866
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

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- 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
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.

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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)diprop-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)diprop-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	
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	

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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/ bioaccumulerend 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

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)
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Poland

This safety datasheet has been prepared according to Polish legislation.	Not applicable
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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

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 Federal Immission Control Act - 12.BImSchV	Added	
15.1	Waterbezwaarlijkheid	Added	

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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 Category 2
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

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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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