

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Metal Plastic Extra Fine

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Consumer use, Professional use  
Use of the substance/mixture : Sealants

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Soudal N.V.  
Everdongenlaan 18-20  
2300 Turnhout  
Belgium  
T +32 14 42 42 31 - F +32 14 42 65 14  
[sds@soudal.com](mailto:sds@soudal.com) - [www.Soudal.com](http://www.Soudal.com)

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussels	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3 H226  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Reproductive toxicity, Category 2 H361d  
Specific target organ toxicity – Repeated exposure, Category 1 H372  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

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### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

EUH-statements

- : Danger
- : styrene
- : H226 - Flammable liquid and vapour.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H361d - Suspected of damaging the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.
- : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- : EUH208 - Contains fatty acids, C14-18 and C16-18-unsaturated, maleated, maleic anhydride. May produce an allergic reaction.  
EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. (Except for black/brown/transparent product).

### 2.3. Other hazards

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
fatty acids, C14-18 and C16-18-unsaturated, maleated (85711-46-2)	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
1,4-naphthoquinone (130-15-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
styrene substance with national workplace exposure limit(s) (BE)	CAS-No.: 100-42-5 EC-No.: 202-851-5 EC Index-No.: 601-026-00-0 REACH-no: 01-2119457861-32	≥ 5 – < 25	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), 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
fatty acids, C14-18 and C16-18-unsaturated, maleated	CAS-No.: 85711-46-2 EC-No.: 288-306-2 REACH-no: 01-2119976378-19	≥ 0,1 – < 1	Skin Irrit. 2, H315 Skin Sens. 1, H317
1,4-naphthoquinone	CAS-No.: 130-15-4 EC-No.: 204-977-6 REACH-no: 01-2120760462-57	< 0,1	Acute Tox. 3 (Oral), H301 Acute Tox. 1 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
maleic anhydride substance with national workplace exposure limit(s) (BE)	CAS-No.: 108-31-6 EC-No.: 203-571-6 EC Index-No.: 607-096-00-9	<0.001	Acute Tox. 4 (Oral), H302 STOT RE 1, H372 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
maleic anhydride	CAS-No.: 108-31-6 EC-No.: 203-571-6 EC Index-No.: 607-096-00-9	( 0,001 ≤C ≤ 100) Skin Sens. 1A, H317

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

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### 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 : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Large spills: scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.  
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Incompatible products	: Heat sources. Ignition sources.
Maximum storage period	: 1 year
Packaging materials	: Tin.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

maleic anhydride (108-31-6)	
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Anhydride maléique (vapeur et aerosol) # Maleïnezuuranhydride (damp en aërosol)
OEL TWA	0,01 mg/m <sup>3</sup>
OEL TWA [ppm]	0,0025 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
styrene (100-42-5)	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	108 mg/m <sup>3</sup>
OEL TWA [ppm]	25 ppm
OEL STEL	216 mg/m <sup>3</sup>
OEL STEL [ppm]	50 ppm

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

maleic anhydride (108-31-6)	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, dermal	0,2 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,95 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,19 mg/m <sup>3</sup>
Long-term - local effects, inhalation	0,32 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, dermal	0,1 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,25
Acute - systemic effects, oral	0,1 mg/kg bodyweight/day
Long-term - systemic effects, oral	0,06 mg/kg bodyweight/day

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<b>maleic anhydride (108-31-6)</b>	
Long-term - systemic effects, inhalation	0,05 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,1 mg/kg bodyweight/day
Long-term - local effects, inhalation	0,08 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,075 mg/l
PNEC aqua (marine water)	0,0075 mg/l
PNEC aqua (intermittent, freshwater)	0,75 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,06 mg/kg dwt
PNEC sediment (marine water)	0,006 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,01 mg/kg dwt
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	6,67 mg/kg food
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	4,46 mg/l
<b>styrene (100-42-5)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, inhalation	289 mg/m <sup>3</sup>
Acute - local effects, inhalation	306 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	406 mg/kg bw/day
Long-term - systemic effects, inhalation	85 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, inhalation	174,25 mg/m <sup>3</sup>
Acute - local effects, inhalation	182,75 mg/m <sup>3</sup>
Long-term - systemic effects, oral	2,1 mg/kg bw/day
Long-term - systemic effects, inhalation	10,2 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	343 mg/kg bw/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,028 mg/l
PNEC aqua (marine water)	0,014 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,614 mg/kg dwt
PNEC sediment (marine water)	0,307 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,2 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	5 mg/l

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### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Safety glasses (EN 166)

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Protective clothing (EN 14605 or EN 13034)

##### Hand protection:

Protective gloves against chemicals (EN 374)

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Variable.
Appearance	: Pasty.
Odour	: solvent-like.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available

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Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1,86 kg/l (20°C)
Relative density	: 1,86 (20°C)
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : 10,92 – 19,33 % (207.38 g/l - 367.35 g/l)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

<b>1,4-naphthoquinone (130-15-4)</b>	
LD50 oral rat	124 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	0,046 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
<b>fatty acids, C14-18 and C16-18-unsaturated, maleated (85711-46-2)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))



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<b>maleic anhydride (108-31-6)</b>	
LD50 dermal rabbit	2620 mg/kg bodyweight Animal: rabbit, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
<b>styrene (100-42-5)</b>	
LD50 oral rat	5000 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	11,8 mg/l air (4 h, Rat, Experimental value, Inhalation (vapours))
Skin corrosion/irritation	: Causes skin irritation.
<b>styrene (100-42-5)</b>	
pH	No data available in the literature
Serious eye damage/irritation	: Causes serious eye irritation.
<b>styrene (100-42-5)</b>	
pH	No data available in the literature
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified.
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: Not classified
<b>1,4-naphthoquinone (130-15-4)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>styrene (100-42-5)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
<b>maleic anhydride (108-31-6)</b>	
NOAEL (oral, rat, 90 days)	≈ 10 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
NOAEC (inhalation, rat, vapour, 90 days)	≈ 0,0033 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
STOT-repeated exposure	Causes damage to organs (respiratory system) through prolonged or repeated exposure (inhalation).
<b>styrene (100-42-5)</b>	
STOT-repeated exposure	Causes damage to organs (hearing organs) through prolonged or repeated exposure.
Aspiration hazard	: Not classified
<b>styrene (100-42-5)</b>	
Viscosity, kinematic	0,77 mm <sup>2</sup> /s (25 °C)

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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

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

Not rapidly degradable

<b>1,4-naphthoquinone (130-15-4)</b>	
LC50 - Fish [1]	0,045 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, <i>Oryzias latipes</i> , Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	0,026 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Semi-static system, Fresh water, Experimental value, GLP)
ErC50 algae	0,42 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, <i>Pseudokirchneriella subcapitata</i> , Static system, Fresh water, Experimental value, GLP)

<b>fatty acids, C14-18 and C16-18-unsaturated, maleated (85711-46-2)</b>	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, <i>Danio rerio</i> , Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, GLP)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, <i>Desmodesmus subspicatus</i> , Static system, Fresh water, Experimental value, GLP)

<b>maleic anhydride (108-31-6)</b>	
LC50 - Fish [1]	75 mg/l Test organisms (species): <i>Lepomis macrochirus</i>
LC50 - Fish [2]	75 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> )
EC50 - Crustacea [1]	330 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	> 150 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> )

<b>styrene (100-42-5)</b>	
LC50 - Fish [1]	10 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, <i>Pimephales promelas</i> , Flow-through system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	4,7 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Flow-through system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	4,9 mg/l (EPA OTS 797.1050, 72 h, <i>Pseudokirchneriella subcapitata</i> , Static system, Fresh water, Experimental value, Growth rate)

## 12.2. Persistence and degradability

<b>1,4-naphthoquinone (130-15-4)</b>	
Persistence and degradability	Not readily biodegradable in water.

<b>fatty acids, C14-18 and C16-18-unsaturated, maleated (85711-46-2)</b>	
Persistence and degradability	Not readily biodegradable in water.

<b>styrene (100-42-5)</b>	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Chemical oxygen demand (COD)	2,8 g O <sub>2</sub> /g substance
ThOD	3,07 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0,42 (Literature study)

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### 12.3. Bioaccumulative potential

#### 1,4-naphthoquinone (130-15-4)

Partition coefficient n-octanol/water (Log Pow)	1,77 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

#### fatty acids, C14-18 and C16-18-unsaturated, maleated (85711-46-2)

BCF - Other aquatic organisms [1]	10 (BCFBAF v3.01, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	> 4 (Experimental value, Other, 23 °C)
Bioaccumulative potential	Bioaccumable.

#### styrene (100-42-5)

BCF - Fish [1]	74 (Calculated value)
Partition coefficient n-octanol/water (Log Pow)	2,96 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

#### 1,4-naphthoquinone (130-15-4)

Surface tension	72,6 mN/m (20 °C, ≤ 0.57 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Ecology - soil	No (test)data on mobility of the substance available.

#### fatty acids, C14-18 and C16-18-unsaturated, maleated (85711-46-2)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2,41 – 5,38 (log Koc, Other, Calculated value)
Ecology - soil	No straightforward conclusion can be drawn based upon the available numerical values.

#### styrene (100-42-5)

Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2,55 (log Koc, Estimated value)
Ecology - soil	Low potential for adsorption in soil.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Additional information	: Flammable vapours may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment.

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European List of Waste (LoW) code : 08 04 09\* - waste adhesives and sealants containing organic solvents or other dangerous substances  
15 01 10\* - packaging containing residues of or contaminated by dangerous substances

### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 3269	UN 3269	UN 3269	UN 3269	UN 3269
<b>14.2. UN proper shipping name</b>				
POLYESTER RESIN KIT	POLYESTER RESIN KIT	Polyester resin kit	POLYESTER RESIN KIT	POLYESTER RESIN KIT
<b>Transport document description</b>				
UN 3269 POLYESTER RESIN KIT, 3, III, (E)	UN 3269 POLYESTER RESIN KIT, 3, III	UN 3269 Polyester resin kit, 3, III	UN 3269 POLYESTER RESIN KIT, 3, III	UN 3269 POLYESTER RESIN KIT, 3, III
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
				
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : F3  
Special provisions (ADR) : 236, 340  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E0  
Packing instructions (ADR) : P302, R001  
Transport category (ADR) : 3  
Special provisions for carriage - Operation (ADR) : S2  
Tunnel restriction code (ADR) : E

#### Transport by sea

Special provisions (IMDG) : 236, 340  
Limited quantities (IMDG) : 5 L  
Packing instructions (IMDG) : P302  
EmS-No. (Fire) : F-E  
EmS-No. (Spillage) : S-D  
Stowage category (IMDG) : A  
Properties and observations (IMDG) : Polyester resin kits consist of two components: a base material (flammable liquid, packaging group II) and an activator (organic peroxide), each separately packed in an inner packaging.

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### Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y370
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 370
PCA max net quantity (IATA)	: 10kg
CAO packing instructions (IATA)	: 370
CAO max net quantity (IATA)	: 10kg
Special provisions (IATA)	: A66, A163
ERG code (IATA)	: 3L

### Inland waterway transport

Classification code (ADN)	: F3
Special provisions (ADN)	: 236, 340
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

### Rail transport

Classification code (RID)	: F3
Special provisions (RID)	: 236, 340
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P302, R001
Transport category (RID)	: 3
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	Metal Plastic Extra Fine ; styrene	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
3(b)	Metal Plastic Extra Fine ; styrene ; fatty acids, C14-18 and C16-18-unsaturated, maleated	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
3(c)	styrene	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
40.	styrene	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.

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### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

### PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

### POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

### VOC Directive (2004/42)

VOC content : 10,92 – 19,33 % (207.38 g/l - 367.35 g/l)

### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878		
2		Modified	
3.2		Modified	

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level

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Abbreviations and acronyms:	
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), 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 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
EUH208	Contains fatty acids, C14-18 and C16-18-unsaturated, maleated, maleic anhydride. May produce an allergic reaction.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. (Except for black/brown/transparent product)

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Full text of H- and EUH-statements:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties 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.
H412	Harmful to aquatic life with long lasting effects.
Repr. 2	Reproductive toxicity, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 3	H226	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 2	H361d	Expert judgment
STOT RE 1	H372	Calculation method

Safety Data Sheet (SDS), EU-20221

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.