

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Product Reference code:according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Ref. (EU): REFACE-SDS

Issue date: 17/03/2015 Revision date: 18/01/2023 Supersedes version of: 03/12/2020 Version: 7.0

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

1.1. Product identifier

Product form : Mixture

Trade name : REFACE SPRAYABLE FILLER Product code : UPOL/SF1, UPOL/SF2

Product group : Coating

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 : Coatings and paints, thinners, paint removers

Function or use category : Fillers

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer Importer

U-POL Limited Ltd
U-POL Netherlands B.V. B.V.
Denington Road
Hoorgoorddreef 15
GB- NN8 2QH Wellingborough - Northamptonshire
NL- 1101BA Amsterdam

United Kingdom Netherlands T +44 (0) 1933 230310 T +31 20 240 2216

technicalsupport@u-pol.com - www.u-pol.com technicalsupport@u-pol.com - www.u-pol.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: +44 (0) 870 8200418 (24 hrs)

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	NHS England, Scotland & Wales	-	Call 111 or a Doctor	In Northern Ireland, contact your local GP or pharmacist during normal hours (www.gpoutofhours.h scni.net)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361

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Specific target organ toxicity – Single exposure, Category 3, Respiratory H335

tract irritation

Specific target organ toxicity – Repeated exposure, Category 1 H372
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

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

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Signal word (CLP)

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

Hazard pictograms (CLP)



GHS02





: Danger

Contains : styrene, cobalt(II) 2-ethylhexanoate

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation.

H361 - Suspected of damaging the unborn child.

H372 - Causes damage to organs (hearing organs) through prolonged or repeated

exposure (inhalation).

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, open flames, sparks. – No smoking.

P261 - Avoid breathing vapours, spray, fume. P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection, protective clothing, protective gloves.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 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
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	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
ethyl acetate (141-78-6)	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
cobalt(II) 2-ethylhexanoate (136-52-7)	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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Component	
1,4-dihydroxybenzene; hydroquinone; quinol (123-31-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
styrene (Note D)	CAS-No.: 100-42-5 EC-No.: 202-851-5 EC Index-No.: 601-026-00-0 REACH-no: 01-2119457861- 32	10 – 50	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:vapour), 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
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379- 17	3 – 5	Carc. 2, H351
ethyl acetate substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-	1 – 2.5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
cobalt(II) 2-ethylhexanoate	CAS-No.: 136-52-7 EC-No.: 205-250-6 REACH-no: 01-2119560574- 35	0.1 – 0.25	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360F Aquatic Acute 1, H400 Aquatic Chronic 3, H412
1,4-dihydroxybenzene; hydroquinone; quinol	CAS-No.: 123-31-9 EC-No.: 204-617-8 EC Index-No.: 604-005-00-4 REACH-no: 01-2119524016- 51	< 0.1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Acute 1, H400 (M=10)

Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

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

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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. Call a poison center or a

doctor if you feel unwell.

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 inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness

or cracking.

Symptoms/effects after eye contact : Eye irritation.

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 : Highly 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

Protective equipment : Safety glasses. Protective clothing. Gloves.

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe

vapours, spray, fume. 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

For containment : Contain released product, collect/pump into suitable containers. Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : Dispose of materials or solid residues at an authorized site.

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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 : 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 vapours, spray, fume. Use only outdoors or

in a well-ventilated area. 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.

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.

Storage temperature : < 25 °C

Storage area : Store in a well-ventilated place. Special rules on packaging : Keep only in original container.

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

styrene (100-42-5)		
Ireland - Occupational Exposure Limits		
Local name	Styrene [Phenylethylene, Vinyl benzene]	
OEL TWA [1]	85 mg/m³	
OEL TWA [2]	20 ppm	
OEL STEL	170 mg/m³	
OEL STEL [ppm]	40 ppm	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure Limits		
Local name	Styrene	
WEL TWA (OEL TWA) [1]	430 mg/m³	
WEL TWA (OEL TWA) [2]	100 ppm	
WEL STEL (OEL STEL)	1080 mg/m³	
WEL STEL (OEL STEL) [ppm]	250 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

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titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
Ireland - Occupational Exposure Limits		
Local name	Titanium dioxide	
OEL TWA [1]	10 mg/m³ total inhalable dust 4 mg/m³ respirable dust	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure Limits		
Local name	Titanium dioxide	
WEL TWA (OEL TWA) [1]	10 mg/m³ 4 mg/m³	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
ethyl acetate (141-78-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Ethyl acetate	
IOEL TWA	734 mg/m³	
IOEL TWA [ppm]	200 ppm	
IOEL STEL	1468 mg/m³ 1468 mg/m³	
IOEL STEL [ppm]	400 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164 COMMISSION DIRECTIVE (EU) 2017/164	
Ireland - Occupational Exposure Limits		
Local name	Ethyl acetate	
OEL TWA [1]	734 mg/m³	
OEL TWA [2]	200 ppm	
OEL STEL	1468 mg/m³	
OEL STEL [ppm]	400 ppm	
Remark	IOELV (Indicative Occupational Exposure Limit Values)	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure Limits		
Local name	Ethyl acetate	
WEL TWA (OEL TWA) [1]	734 mg/m³	
WEL TWA (OEL TWA) [2]	200 ppm	
WEL STEL (OEL STEL)	1468 mg/m³	
WEL STEL (OEL STEL) [ppm]	400 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
cobalt(II) 2-ethylhexanoate (136-52-7)		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	0.1 mg/m³	

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1,4-dihydroxybenzene; hydroquinone; quinol (123-31-9)		
Ireland - Occupational Exposure Limits		
Local name	Hydroquinone [p-Dihydroxybenzene]	
OEL TWA [1]	0.5 mg/m³	
Remark	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))	
Regulatory reference	Chemical Agents Code of Practice 2020	
United Kingdom - Occupational Exposure Limits		
Local name	Hydroquinone	
WEL TWA (OEL TWA) [1]	0.5 mg/m³ 0.5 mg/m³	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

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

6.1.4. DREE and FNEO		
styrene (100-42-5)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	289 mg/m³	
Acute - local effects, inhalation	306 mg/m³	
Long-term - systemic effects, dermal	406 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	85 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	174.25 mg/m³	
Acute - local effects, inhalation	182.75 mg/m³	
Long-term - systemic effects,oral	2.1 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	10.2 mg/m³	
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.028 mg/l	
PNEC aqua (marine water)	0.014 mg/l	
PNEC aqua (intermittent, freshwater)	0.04 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.614 mg/kg dwt	
PNEC sediment (marine water)	0.307 mg/kg dwt	

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styrene (100-42-5)		
PNEC (Soil)		
PNEC soil	0.2 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	5 mg/l	
ethyl acetate (141-78-6)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	1468 mg/m³	
Acute - local effects, inhalation	1468 mg/m³	
Long-term - systemic effects, dermal	63 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	734 mg/m³	
Long-term - local effects, inhalation	734 mg/m³	
DNEL/DMEL (General population)	•	
Acute - systemic effects, inhalation	734 mg/m³	
Acute - local effects, inhalation	734 mg/m³	
Long-term - systemic effects,oral	4.5 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	367 mg/m³	
Long-term - systemic effects, dermal	37 mg/kg bodyweight/day	
Long-term - local effects, inhalation	367 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.24 mg/l	
PNEC aqua (marine water)	0.024 mg/l	
PNEC aqua (intermittent, freshwater)	1.65 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	1.15 mg/kg dwt	
PNEC sediment (marine water)	0.115 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.148 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	0.2 g/kg food	
PNEC (STP)		
PNEC sewage treatment plant	650 mg/l	
cobalt(II) 2-ethylhexanoate (136-52-7)		
DNEL/DMEL (Workers)		
Long-term - local effects, inhalation	235.1 μg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	55.8 μg/kg bodyweight/day	
Long-term - local effects, inhalation	37 μg/m³	

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cobalt(II) 2-ethylhexanoate (136-52-7)		
PNEC (Water)		
PNEC aqua (freshwater)	0.6 μg/l	
PNEC aqua (marine water)	2.36 µg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	9.5 mg/kg dwt	
PNEC sediment (marine water)	9.5 mg/kg dwt	
PNEC (Soil)		
PNEC soil	10.9 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	0.37 mg/l	
1,4-dihydroxybenzene; hydroquinone; quinol	(123-31-9)	
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	128 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	7 mg/m³	
Long-term - local effects, inhalation	1 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.6 mg/kg bw/day	
Long-term - systemic effects, inhalation	1.74 mg/m³	
Long-term - systemic effects, dermal	64 mg/kg bodyweight/day	
Long-term - local effects, inhalation	0.5 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.114 μg/l	
PNEC aqua (marine water)	0.0114 μg/l	
PNEC aqua (intermittent, freshwater)	1.34 µg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.98 μg/kg dw	
PNEC sediment (marine water)	0.097 μg/kg dw	
PNEC (Soil)		
PNEC soil	0.129 μg/kg dw	
PNEC (STP)		
PNEC sewage treatment plant	0.71 mg/l	

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.

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8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Protective clothing. Safety glasses.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Other skin protection

Materials for protective clothing:

Impermeable clothing

8.2.2.3. Respiratory protection

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. [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 : White. Appearance : Liquid. Odour : characteristic. Odour threshold : Not available Melting point : Not available : Not available Freezing point : > 35 °C Boiling point : Not applicable Flammability **Explosive limits** : Not available Lower explosion limit : Not available Upper explosion limit : Not available Flash point : 21 °C Auto-ignition temperature : Not available Decomposition temperature : Not available : Not available Viscosity, kinematic : 2664.577 mm²/s

Viscosity, dynamic : 4250 (3500 – 5000) cP
Solubility : insoluble in water, soluble in most organic solvents.

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 : 1.595 (1.575 – 1.615) g/cm³

Relative density 1.595 Relative vapour density at 20°C : Not available : Not applicable Particle size Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable Particle aggregation state : Not applicable : Not applicable Particle agglomeration state Particle specific surface area : Not applicable Particle dustiness : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 405 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly 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

Dodecamethylcyclohexasiloxane (540-97-6)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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styrene (100-42-5)		
LD50 oral rat	5000 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 Inhalation - Rat	11.8 mg/l (4 h, Rat, Inconclusive, insufficient data, Inhalation (vapours))	
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)	
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))	
ethyl acetate (141-78-6)		
LD50 oral rat	10200 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral, 14 day(s))	
LD50 oral	4934 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal rabbit	> 20000 mg/kg bodyweight Animal: rabbit, Animal sex: male	
cobalt(II) 2-ethylhexanoate (136-52-7)		
LD50 oral rat	3129 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), 95% CL: 1750 - 5000	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
1,4-dihydroxybenzene; hydroquinone; quinol	(123-31-9)	
LD50 oral rat	> 375 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))	
LC50 Inhalation - Rat	≥ 7.8 mg/l air (1 h, Rat, Female, Read-across, Inhalation (aerosol), 14 day(s))	
dolomite (16389-88-1)		
LD50 oral rat	> 2000 mg/kg (OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), rat, female, Experimental value)	
magnesium carbonate (546-93-0)		
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)	
barium sulfate (7727-43-7)		
LD50 oral rat	> 5000 mg/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, Rat, Read-across, Dermal)	
neodecanoic acid, cobalt salt (27253-31-2)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	

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cobalt dihydroxide (21041-93-0)		
LD50 oral rat	1060 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 680 - 1660	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 Inhalation - Rat	< 0.05 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))	
dipropylene glycol monomethyl ether (34590-	94-8)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal rat	> 19020 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LD50 dermal rabbit	9510 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
Xylene (1330-20-7)		
LD50 oral rat	> 4000 mg/kg bodyweight (Equivalent or similar to EU Method B.1, Rat, Female, Experimental value, Oral, 14 day(s))	
LD50 dermal rat	12126 mg/kg (Non-GLP, read-across from supporting substance, single dermal dose under occlusion followed by observation for 14 days)	
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male	
LC50 Inhalation - Rat	29.09 mg/l (Equivalent or similar to EU Method B.2, 4 h, Rat, Male, Experimental value, Inhalation (vapours), 14 day(s))	
LC50 Inhalation - Rat [ppm]	6700 ppm/4h (EU Method B.2 (Acute Toxicity (Inhalation)), 4h, rat, male)	
quartz (14808-60-7)		
LD50 oral rat	> 500 mg/kg	
hydrocarbons, C10-C13, n-alkanes, isoalkane	s, cyclics, < 2% aromatics	
LD50 oral rat	> 5000 mg/kg (OECD Guideline 401 (Acute Oral Toxicity), rat, male/female)	
LD50 dermal rabbit	> 5000 mg/kg (OECD Guideline 402 (Acute Dermal Toxicity), rat, male/female)	
LC50 Inhalation - Rat	> 5000 mg/m³ (OECD Guideline 403 (Acute Inhalation Toxicity), 8h, rat, male, vapours)	
hydrocarbons C11-C14, n-alkanes, isoalkanes	s, cyclics <2% aromatics	
LD50 oral rat	5000 mg/kg	
LD50 dermal rabbit	5000 mg/kg	
ethylbenzene (100-41-4)		
LD50 oral rat	3500 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	15433 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat	17.8 mg/l (4 h, Rat, Male, Experimental value, Inhalation (vapours), 14 day(s))	
silicon dioxide, amorphous (7631-86-9)		
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	> 2000 mg/kg bodyweight (24 h, Rabbit, Experimental value, Dermal, 2 day(s))	
LC50 Inhalation - Rat	> 5.01 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 15 day(s))	

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Calcium carbonate (1317-65-3)		
LD50 oral rat	6450 mg/kg (Rat, Literature study, Oral)	
talc (14807-96-6)		
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male, 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	> 2.1 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (aerosol), 15 day(s))	
Skin corrosion/irritation :	Causes skin irritation.	
Serious eye damage/irritation :	Causes serious eye irritation.	
Respiratory or skin sensitisation :	May cause an allergic skin reaction.	
Germ cell mutagenicity : Carcinogenicity :	Not classified Not classified.	
	Not classified.	
styrene (100-42-5)	OD. Doorth consistence in the consistence of the constant of t	
IARC group	2B - Possibly carcinogenic to humans	
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans	
1,4-dihydroxybenzene; hydroquinone; quinol	(123-31-9)	
IARC group	3 - Not classifiable	
barium sulfate (7727-43-7)		
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)	
NOAEL (chronic, oral, animal/female, 2 years)	75 mg/kg bodyweight Animal: rat, Animal sex: female, Remarks on results: other:Effect type: carcinogenicity (migrated information)	
Reproductive toxicity :	Suspected of damaging the unborn child.	
STOT-single exposure : styrene (100-42-5)	May cause respiratory irritation.	
	May cause respiratory irritation.	
STOT-single exposure	may cause respiratory irritation.	
ethyl acetate (141-78-6)		
STOT-single exposure	May cause drowsiness or dizziness.	
Xylene (1330-20-7)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure :	Causes damage to organs (hearing organs) through prolonged or repeated exposure (inhalation).	
Dodecamethylcyclohexasiloxane (540-97-6)		
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
styrene (100-42-5)		
LOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat	
LOAEC (inhalation, rat, vapour, 90 days)	0.21 mg/l air Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat	

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styrene (100-42-5)			
NOAEL (subchronic, oral, animal/male, 90 days)	10 mg/kg bodyweight Animal: mouse, Animal sex: male		
STOT-repeated exposure	Causes damage to organs (hearing sense) through prolonged or repeated exposure (if inhaled).		
ethyl acetate (141-78-6)			
LOAEL (oral, rat, 90 days)	3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)		
NOAEL (oral, rat, 90 days)	900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)		
dipropylene glycol monomethyl ether (34590-94-8)			
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: other:KANPOGYO No.700, YAKUHATSU No. 1039.61, and KIKYKU No. 1014.		
NOAEL (dermal, rat/rabbit, 90 days)	2850 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)		
Xylene (1330-20-7)			
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
ethylbenzene (100-41-4)	ethylbenzene (100-41-4)		
NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity in Rodents)		
STOT-repeated exposure	May cause damage to organs (hearing sense) through prolonged or repeated exposure.		
Aspiration hazard :	Not classified		
REFACE SPRAYABLE FILLER			
Viscosity, kinematic	2664.577 mm²/s		

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

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

(acute)

Hazardous to the aquatic environment, long–term : Harmful to aquatic life with long lasting effects.

(chronic)	
styrene (100-42-5)	
LC50 - Fish [1]	10 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	4.7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4.9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	6.3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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styrene (100-42-5)		
ErC50 algae	4.9 mg/l (EPA OTS 797.1050, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)	
LOEC (chronic)	2.06 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	1.01 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
LC50 - Fish [1]	155 mg/l Test organisms (species): other:Japanese Medaka	
EC50 - Crustacea [1]	19.3 mg/l Test organisms (species): Daphnia magna	
EC50 - Crustacea [2]	27.8 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
ErC50 algae	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)	
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
ethyl acetate (141-78-6)		
LC50 - Fish [1]	230 mg/l Test organisms (species): Pimephales promelas	
NOEC (chronic)	2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
cobalt(II) 2-ethylhexanoate (136-52-7)		
LC50 - Fish [1]	1.512 mg/l (ASTM, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Readacross)	
LC50 - Fish [2]	54.1 mg/l (ASTM, 96 h, Pimephales promelas, Flow-through system, Fresh water, Readacross)	
EC50 - Other aquatic organisms [1]	1703 mg/kg dwt (ASTM, 28 day(s), Tubifex tubifex, Semi-static system, Fresh water, Read-across, Reproduction)	
ErC50 algae	144 μg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)	
NOEC chronic crustacea	0.608 mg/l (21 d, Daphnia magna (Water flea), reproduction rate, OECD Test Guideline 211)	
1,4-dihydroxybenzene; hydroquinone; quinol (123-31-9)		
LC50 - Fish [1]	0.638 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [1]	0.134 mg/l Test organisms (species): Daphnia magna	
EC50 - Crustacea [2]	0.061 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	0.335 mg/l (Daphnia magna, 72h)	
ErC50 algae	0.053 mg/l (Equivalent or similar to OECD 201, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)	

12.2. Persistence and degradability

styrene (100-42-5)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Chemical oxygen demand (COD)	2.8 g O ₂ /g substance
ThOD	3.07 g O₂/g substance
BOD (% of ThOD)	0.42 (Literature study)

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titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)			
Persistence and degradability	Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable (inorganic)		
ThOD	Not applicable (inorganic)		
ethyl acetate (141-78-6)	ethyl acetate (141-78-6)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	0.293 g O₂/g substance		
Chemical oxygen demand (COD)	1.69 g O₂/g substance		
ThOD	1.82 g O₂/g substance		
cobalt(II) 2-ethylhexanoate (136-52-7)			
Persistence and degradability	Readily biodegradable in water.		
1,4-dihydroxybenzene; hydroquinone; quinol (123-31-9)			
Persistence and degradability	Readily biodegradable in the soil. Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	0.48 – 1.1 g O₂/g substance		
Chemical oxygen demand (COD)	1.83 g O₂/g substance		
ThOD	1.89 g O₂/g substance		

12.3. Bioaccumulative potential

Coefficient (n-octanol/water):		
Coefficient (n-octanol/water):		
Coefficient (n-octanol/water):		
≤ 10 µm] (13463-67-7)		
ethyl acetate (141-78-6)		
lue)		
ater, Read-across, Fresh		
1,4-dihydroxybenzene; hydroquinone; quinol (123-31-9)		

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12.4. Mobility in soil

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.	
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
Surface tension	No data available in the literature	
Ecology - soil	Low potential for mobility in soil.	
ethyl acetate (141-78-6)		
Surface tension	No data available in the literature	
Ecology - soil	Low potential for adsorption in soil.	
cobalt(II) 2-ethylhexanoate (136-52-7)		
Surface tension	64 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)	
Ecology - soil	No (test)data on mobility of the substance available.	
1,4-dihydroxybenzene; hydroquinone; quinol (123-31-9)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.97 – 1.585 (log Koc, Estimated value)	
Ecology - soil	Highly mobile in soil.	

12.5. Results of PBT and vPvB assessment

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
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	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
ethyl acetate (141-78-6)	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
cobalt(II) 2-ethylhexanoate (136-52-7)	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-dihydroxybenzene; hydroquinone; quinol (123-31-9)	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

No additional information available

12.7. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information Flammable vapours may accumulate in the container.

SECTION 14: Transport information

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

14.1. UN number or ID number

UN-No. (ADR) : UN 1866 UN-No. (IMDG) : UN 1866 UN-No. (IATA) : UN 1866 UN-No. (ADN) : UN 1866 UN-No. (RID) : UN 1866

14.2. UN proper shipping name

Proper Shipping Name (ADR) : RESIN SOLUTION Proper Shipping Name (IMDG) **RESIN SOLUTION** Proper Shipping Name (IATA) Resin solution **RESIN SOLUTION** Proper Shipping Name (ADN) : RESIN SOLUTION Proper Shipping Name (RID)

Transport document description (ADR) : UN 1866 RESIN SOLUTION, 3, II, (D/E) : UN 1866 RESIN SOLUTION, 3, II Transport document description (IMDG) Transport document description (IATA) : UN 1866 Resin solution, 3, II Transport document description (ADN) : UN 1866 RESIN SOLUTION, 3, II Transport document description (RID) : UN 1866 RESIN SOLUTION, 3, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3 3

Danger labels (ADR)



IMDG

Transport hazard class(es) (IMDG) 3 3 Danger labels (IMDG)



IATA

Transport hazard class(es) (IATA) : 3 Danger labels (IATA) : 3



ADN

Transport hazard class(es) (ADN) : 3

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Danger labels (ADN) : 3

3

RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 640D
Limited quantities (ADR) : 51
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP8

(ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation (ADR) : S2, S20
Hazard identification number (Kemler No.) : 33

Orange plates :

33 1866

Tunnel restriction code (ADR) : D/E EAC code : •3YE

Transport by sea

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 : PP1 Special packing provisions (IMDG) : IBC02 IBC packing instructions (IMDG) Tank instructions (IMDG) T4 Tank special provisions (IMDG) : TP1, TP8 : F-E EmS-No. (Fire)

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EmS-No. (Spillage) : S-E Stowage category (IMDG) : B

Properties and observations (IMDG) : Miscibility with water depends upon the composition.

Air transport

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

Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 640D
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 1

Rail transport

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

Packing instructions (RID) : P001, IBC02, R001

Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP8

(RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 2
Colis express (express parcels) (RID) : CE7
Hazard identification number (RID) : 33

14.7. Maritime transport in bulk according to IMO instruments

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

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	REFACE SPRAYABLE FILLER; styrene; ethyl acetate	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)	REFACE SPRAYABLE FILLER; styrene; ethyl acetate	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

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(c)	REFACE SPRAYABLE FILLER; 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.	REFACE SPRAYABLE FILLER; styrene; ethyl acetate	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.

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

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

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

VOC content : 405 g/l

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

ndication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
	Hazard identification number (RID)	Modified	
	Colis express (express parcels) (RID)	Modified	
	Transport category (RID)	Modified	
	Tank codes for RID tanks (RID)	Modified	
	Portable tank and bulk container special provisions (RID)	Modified	
	Portable tank and bulk container instructions (RID)	Modified	
	Packing instructions (RID)	Modified	
	Excepted quantities (RID)	Modified	
	Special provisions (RID)	Removed	
	Packing group (RID)	Modified	
	Special provisions (IATA)	Modified	
	CAO max net quantity (IATA)	Modified	
	CAO packing instructions (IATA)	Modified	
	PCA max net quantity (IATA)	Modified	
	PCA packing instructions (IATA)	Modified	
	PCA limited quantity max net quantity (IATA)	Modified	
	PCA Limited quantities (IATA)	Modified	

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Section	Changed item	Change	Comments
Section	PCA Excepted quantities (IATA)	Modified	Comments
		Modified	
	Proper Shipping Name (IATA)		
	Proper Shipping Name (IMDG)	Modified	
	Stowage category (IMDG)	Modified	
	Tank special provisions (IMDG)	Modified	
	Tank instructions (IMDG)	Modified	
	IBC packing instructions (IMDG)	Modified	
	Special provisions for carriage - Operation (ADR)	Modified	
	Tank code (ADR)	Modified	
	Portable tank and bulk container special provisions (ADR)	Modified	
	Portable tank and bulk container instructions (ADR)	Modified	
	Packing instructions (ADR)	Modified	
	Special provisions for carriage - Packages (ADR)	Added	
	Special provisions for carriage – Packages (RID)	Added	
	Excepted quantities (IMDG)	Modified	
	Special provisions (IMDG)	Modified	
	Number of blue cones/lights (ADN)	Modified	
	Excepted quantities (ADN)	Modified	
1.1	Trade name	Modified	
1.2	Main use category	Added	
1.2	Industrial/Professional use spec	Removed	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	EUH-statements	Removed	
2.2	Precautionary statements (CLP)	Modified	
4.1	First-aid measures after inhalation	Modified	
4.1	First-aid measures after skin contact	Modified	
4.2	Symptoms/effects after inhalation	Added	
4.2	Symptoms/effects after skin contact	Modified	
6.1	Emergency procedures	Modified	
6.2	Environmental precautions	Modified	
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Indication of changes			
Section	Changed item	Change	Comments
7.1	Hygiene measures	Modified	
8.2	Respiratory protection	Modified	
9.1	Density	Modified	
9.2	VOC content	Modified	
12.1	Ecology - general	Modified	
14.1	UN-No. (IMDG)	Modified	
14.1	UN-No. (IATA)	Modified	
14.4	Packing group (ADR)	Modified	
14.4	Packing group (ADN)	Modified	
14.4	Packing group (IATA)	Modified	
14.4	Packing group (IMDG)	Modified	
14.6	Hazard identification number (Kemler No.)	Modified	
14.6	Excepted quantities (ADR)	Modified	
14.6	Special provisions (ADR)	Removed	
14.6	Transport category (ADR)	Modified	
14.6	Special provisions (ADN)	Removed	
14.6	Packing instructions (IMDG)	Modified	
15.1	VOC content	Modified	
16	Abbreviations and acronyms	Added	

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	
BLV	Biological limit value	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EC-No.	European Community number	
EN	European Standard	
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	

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Abbreviations and acronyms:		
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	
WGK	Water Hazard Class	

Full text of H- and EUH-statements:		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) 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 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
Carc. 2	Carcinogenicity, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H341	Suspected of causing genetic defects.	
H351	Suspected of causing cancer.	
H360F	May damage fertility.	
H361	Suspected of damaging fertility or the unborn child.	

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:		
H361d	Suspected of damaging the unborn child.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H412	Harmful to aquatic life with long lasting effects.	
Muta. 2	Germ cell mutagenicity, Category 2	
Repr. 1B	Reproductive toxicity, Category 1B	
Repr. 2	Reproductive toxicity, Category 2	
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	

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