

SOLL RESIN Polyester resin

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 02/03/2016 Revision date: 04/01/2022 Supersedes version of: 14/05/2021 Version: 5.0

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

1.1. Product identifier

Product form : Mixture
Name : SOLL RESIN Polyester resin
UFI : EHN1-40QH-C009-D8WR
Contains : styrene; phthalic anhydride; maleic anhydride; reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)

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

1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use
Industrial/Professional use spec : Used for the repair of car body components and polyester laminates.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

UAB HELVINA
Parko g. 96, Ramučiai
LT-54464 Kauno raj., Lithuania
T +370 37 308901 - F +370 37 308902
info@helvina.lt - www.helvina.lt
Competent person responsible for SDS, e-mail: info@helvina.lt

1.4. Emergency telephone number

Emergency number : Poison Control and Information Bureau
Tel. +370 5 236 2052 arba +370 687 53378.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Repr. 2	H361d
STOT SE 3	H335
STOT RE 1	H372
Aquatic Chronic 3	H412

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of damaging the unborn child. Causes damage to organs (hearing organs) through prolonged or repeated exposure (inhalation). 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

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

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

Signal word (CLP)

: Danger

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Contains	: styrene; phthalic anhydride; maleic anhydride; reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
Hazard statements (CLP)	: H226 - 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. H361d - 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)	: P260 - Do not breathe dust, vapours, spray. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P314 - Get medical advice/attention if you feel unwell. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
Extra phrases	: The product is intended for professional use.

2.3. Other hazards

Other hazards which do not result in classification: Vapours may form flammable mixture with air. 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 %.

The product does not meet the PBT and vPvB classification criteria

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	(CAS-No.) 100-42-5 (EC-No.) 202-851-5 (EC Index-No.) 601-026-00-0 (REACH-no) 01-2119457861-32-XXXX	≤ 38	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
diethylene glycol	(CAS-No.) 111-46-6 (EC-No.) 203-872-2 (EC Index-No.) 603-140-00-6 (REACH-no) 01-2119457857-21-XXXX	$\leq 1,2$	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
phthalic anhydride	(CAS-No.) 85-44-9 (EC-No.) 201-607-5 (EC Index-No.) 607-009-00-4 (REACH-no) 01-2119457017-41-XXXX	$\leq 0,99$	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335

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reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	(CAS-No.) 25068-38-6 (EC-No.) 500-033-5 (EC Index-No.) 603-074-00-8 (REACH-no) 01-2119456619-26-XXXX	\leq 0,6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
ethylene glycol substance with a Community workplace exposure limit	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119456816-28-XXXX	\leq 0,099	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
maleic anhydride	(CAS-No.) 108-31-6 (EC-No.) 203-571-6 (EC Index-No.) 607-096-00-9 (REACH-no) 01-2119472428-31-XXXX	\leq 0,09	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372

Specific concentration limits:

Name	Product identifier	Specific concentration limits
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	(CAS-No.) 25068-38-6 (EC-No.) 500-033-5 (EC Index-No.) 603-074-00-8 (REACH-no) 01-2119456619-26-XXXX	(5 \leq C < 100) Skin Irrit. 2, H315 (5 \leq C < 100) Eye Irrit. 2, H319
maleic anhydride	(CAS-No.) 108-31-6 (EC-No.) 203-571-6 (EC Index-No.) 607-096-00-9 (REACH-no) 01-2119472428-31-XXXX	(0,001 \leq C \leq 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. 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.
Symptoms/effects after eye contact	: Eye irritation.

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

The decision on how to proceed with the rescue should be made by the doctor after careful assessment of the victim's condition. In case of severe poisoning, measures to prevent liver damage should be given; control the function of the heart and circulatory system. There is no antidote. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

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Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.
Hazardous decomposition products in case of fire: During combustion, hazardous vapors and gases containing thermal decomposition products, carbon oxides and soot may be formed. Avoid inhalation of combustion products, they may be hazardous to health.

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, 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. Avoid the formation of vapors. In case of spillage, steps should be taken to prevent it from spreading into the environment - prevent it from reaching sewage systems, water reservoirs, rivers, groundwater and soil. Do not use open fire, avoid sparks, eliminate ignition sources. Notify the appropriate emergency services. Warn others about the danger. Similar precautions should also be taken in the event of fire water.

6.3. Methods and material for containment and cleaning up

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

Other information : Proceed in accordance with the Environmental Protection Law and the Waste Act. 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 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. 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, vapours, spray. 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

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.
Storage temperature : 5 – 20 °C
Heat and ignition sources : Keep out of direct sunlight. Keep away from open flames, hot surfaces and sources of ignition.
Storage area : Store in a dry place. Protect from moisture.

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7.3. Specific end use(s)

See Section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

styrene (100-42-5)

Lithuania - Occupational Exposure Limits

Local name	Stirenas
IPRD	90 mg/m ³ ; 20 ppm
TPRD	200 mg/m ³ ; 50 ppm
Remark	Projektuojant naujus objektus ar keičiant senus, reikia stengtis užtikrinti, kad stireno poveikis per darbo dieną būtų priimtinas laikantis IPRD 10 ppm koncentracijos.
Regulatory reference	HN 23:2011

diethylene glycol (111-46-6)

Lithuania - Occupational Exposure Limits

Local name	2,2-oksidiėtanolis
IPRD	45 mg/m ³ ; 10 ppm
TPRD	90 mg/m ³ ; 20 ppm
Regulatory reference	HN 23:2011

phthalic anhydride (85-44-9)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Phthalic anhydride
Notes	Respiratory sensitizer; skin sensitizer. (Year of adoption 2010)
Regulatory reference	SCOEL Recommendations
Lithuania - Occupational Exposure Limits	
Local name	Ftalio rūgšties anhidridas
IPRD	2 mg/m ³
NRD	3 ppm
Regulatory reference	HN 23:2011

ethylene glycol (107-21-1)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Ethylene glycol
IOEL TWA [ppm]	20 ppm
IOEL STEL	104 mg/m ³
IOEL STEL [ppm]	40 ppm
Notes	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

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ethylene glycol (107-21-1)

Lithuania - Occupational Exposure Limits

Local name	Etilenglikolis (1,2-etandiolis, glikolis)
IPRD	25 mg/m ³ ; 10 ppm
TPRD	50 mg/m ³ ; 20 ppm
Remark	Šis RD taikomas bendrai garų ir aerozolio koncentracijai.
Regulatory reference	HN 23:2011

maleic anhydride (108-31-6)

Lithuania - Occupational Exposure Limits

Local name	Maleino anhidridas
IPRD	1,2 mg/m ³ ; 0,3 ppm
TPRD	2,5 mg/m ³ ; 0,6 ppm
Regulatory reference	HN 23:2011

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

styrene (100-42-5)

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	289 mg/m ³
Acute - local effects, inhalation	306 mg/m ³
Long-term - systemic effects, dermal	406 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	85 mg/m ³

DNEL/DMEL (General population)

Acute - systemic effects, inhalation	174,25 mg/m ³
Acute - local effects, inhalation	182,75 mg/m ³
Long-term - systemic effects, oral	2,1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	10,2 mg/m ³
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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PNEC (Soil)	
PNEC soil	0,2 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	5 mg/l

diethylene glycol (111-46-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	106 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	60 mg/m ³
Long-term - local effects, inhalation	60 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	12 mg/m ³
Long-term - systemic effects, dermal	53 mg/kg bodyweight/day
Long-term - local effects, inhalation	12 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	10 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	20,9 mg/kg dwt
PNEC sediment (marine water)	2,09 mg/kg dwt
PNEC (Soil)	
PNEC soil	1,53 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	199,5 mg/l

phthalic anhydride (85-44-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	32,2 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8,6 mg/m ³
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0,1 mg/l
PNEC aqua (intermittent, freshwater)	5,6 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3,8 mg/kg dwt
PNEC sediment (marine water)	0,38 mg/kg dwt

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PNEC (Soil)	
PNEC soil	0,173 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

ethylene glycol (107-21-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	106 mg/kg bodyweight/day
Long-term - local effects, inhalation	35 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, dermal	53 mg/kg bodyweight/day
Long-term - local effects, inhalation	7 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	10 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	10 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	37 mg/kg dwt
PNEC sediment (marine water)	3,7 mg/kg dwt
PNEC (Soil)	
PNEC soil	1,53 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	199,5 mg/l

maleic anhydride (108-31-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	0,2 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,95 mg/m ³
Long-term - systemic effects, dermal	0,2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,19 mg/m ³
Long-term - local effects, inhalation	0,32 mg/m ³
DNEL/DMEL (General population)	
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
Long-term - systemic effects, inhalation	0,05 mg/m ³
Long-term - systemic effects, dermal	0,1 mg/kg bodyweight/day
Long-term - local effects, inhalation	0,08 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,075 mg/l
PNEC aqua (marine water)	0,0075 mg/l

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PNEC aqua (intermittent, fresh water)	0,75 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,06 mg/kg dwt
PNEC sediment (marine water)	0,006 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,01 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	6,67 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	4,46 mg/l

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (25068-38-6)

DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	8,33 mg/kg bodyweight/day
Acute - systemic effects, inhalation	12,25 mg/m ³
Long-term - systemic effects, dermal	8,33 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	12,25 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	3,571 mg/kg bodyweight/day
Acute - systemic effects, oral	0,75 mg/kg bodyweight/day
Long-term - systemic effects, oral	0,75 mg/kg bodyweight/day
Long-term - systemic effects, dermal	3,571 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,006 mg/l
PNEC aqua (marine water)	0,0006 mg/l
PNEC aqua (intermittent, fresh water)	0,018 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,996 mg/kg dwt
PNEC sediment (marine water)	0,0996 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,196 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	11 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure adequate ventilation in confined areas. If ventilation is not sufficient, to keep vapour concentrations below the limit values use the appropriate respiratory protection. Personal protection equipment should be selected on the basis of substance concentrations at individual work stations, exposure time, operator functions and recommendations indicated by the supplier of the equipment. In explosion-risk areas, wear clothes, gloves and boots with electrostatic discharge protection function. Procedures for monitoring concentrations of hazardous components in the air and procedures for air cleanliness in the workplace should be applied - as long as they are available and justified at the workplace - in accordance with the relevant reference methods - standards in force in Lithuania. The mode, type and frequency of tests and measurements should meet the requirements of the Regulation of the Minister of Health of February 2, 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws No. 33 item 166, as amended). 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			
Type	Field of application	Characteristics	Standard
Safety glasses	Dust, Fine dust, Droplet	clear	EN 166

8.2.2.2. Skin protection

Skin and body protection:
Wear suitable protective clothing

Hand protection:					
Protective gloves					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Polyvinylchloride (PVC), Latex, Neoprene rubber (HNBR), Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,38 mm	3 (> 0.65)	EN ISO 374, EN 420

Other skin protection		
Materials for protective clothing:		
Condition	Material	Standard
Indoor or outdoor use	Antistatic clothing	EN 340, EN 14605, EN ISO 20346

8.2.2.3. Respiratory protection

Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

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Device	Filter type	Condition	Standard
Reusable half mask	Type P2	Short term exposure, Protection for Solid particles, Protection for Liquid particles	EN 143, EN 149

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

In order to reduce the impact on the environment and human health, the recommendations contained in this safety data sheet should be followed. When carrying out operations with the product at elevated temperatures, use efficient ventilation systems equipped with devices preventing the emission of gases into the atmospheric air. Do not contaminate water with the product or its packaging. Prevent the product or its packaging from getting into the sewage system, water reservoirs, rivers, groundwater and soil. It is forbidden to recover or dispose of the product, packaging and packaging waste outside of the installations or devices intended for this purpose, meeting the requirements specified in the provisions of the Act on waste. Avoid release to the environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow.
Odour	: Aromatic. Sweet.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: ≈ -31 °C (for styrene)
Boiling point	: 145 °C (1013 hPa; for styrene)
Flammability	: Flammable liquid and vapour.
Explosive properties	: Vapours may form flammable mixture with air.
Oxidising properties	: Does not meet the criteria for classification as oxidising.
Explosive limits	: Not available
Lower explosive limit (LEL)	: 0,9 vol % (for styrene)
Upper explosive limit (UEL)	: 6,1 vol % (for styrene)
Flash point	: > 31 °C (for mixture)
Auto-ignition temperature	: 490 °C (1013 hPa; for styrene)
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 400 – 600 mPa.s (23°C, PN ISO 12058-1; Hoeppler)
Solubility	: Poorly soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: 2,96 (25°C, for styrene)
Vapour pressure	: 6,65 hPa (20°C, for styrene)
Vapour pressure at 50 °C	: Not available
Density	: 1,06 – 1,16 g/cm ³ (23°C, PN EN ISO 2811-1)
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

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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

VOC content : < 540 g/l Directive 2004/42/CE Annex II B, primer

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

Strong acids, strong bases and strong oxidants. Organic peroxides.

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

styrene (100-42-5)

LD50 oral	> 6000 mg/kg bodyweight Animal: hamster, Syrian, Animal sex: male
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat (Vapours)	11,8 mg/l/4h

diethylene glycol (111-46-6)

LD50 oral rat	16500
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phthalic anhydride (85-44-9)

LD50 oral rat	1530 mg/kg bodyweight Animal: rat, Animal sex: male
LC50 Inhalation - Rat	> 2,14 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

ethylene glycol (107-21-1)

LD50 oral rat	7712 mg/kg bodyweight Animal: rat
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maleic anhydride (108-31-6)	
LD50 dermal rabbit	2620 mg/kg bodyweight Animal: rabbit, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

reaction product: bisphenol-A(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))

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 : Not classified
Carcinogenicity : Not classified

diethylene glycol (111-46-6)	
NOAEL (chronic, oral, animal/male, 2 years)	1210 mg/kg bodyweight Animal: rat, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)
NOAEL (chronic, oral, animal/female, 2 years)	1160 mg/kg bodyweight Animal: rat, Animal sex: female, Remarks on results: other:Effect type: carcinogenicity (migrated information)

phthalic anhydride (85-44-9)	
NOAEL (chronic, oral, animal/male, 2 years)	3570 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)
NOAEL (chronic, oral, animal/female, 2 years)	1785 mg/kg bodyweight Animal: mouse, Animal sex: female, Remarks on results: other:Effect type: carcinogenicity (migrated information)

ethylene glycol (107-21-1)	
NOAEL (chronic, oral, animal/male, 2 years)	1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Effect type: carcinogenicity (migrated information)

reaction product: bisphenol-A(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	
NOAEL (chronic, oral, animal/male, 2 years)	15 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Guideline: EPA OPPTS 870.4300 (Combined Chronic Toxicity / Carcinogenicity), Guideline: other:MITI, Japanese ministry of international trade and industry, February 1998, Remarks on results: other:Effect type: toxicity (migrated information)
NOAEL (chronic, oral, animal/female, 2 years)	100 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Guideline: EPA OPPTS 870.4300 (Combined Chronic Toxicity / Carcinogenicity), Guideline: other:MITI, Japanese ministry of international trade and industry, February 1998, Remarks on results: other:Effect type: toxicity (migrated information)

Reproductive toxicity : Suspected of damaging the unborn child.

phthalic anhydride (85-44-9)	
NOAEL (animal/male, F0/P)	3570 mg/kg bodyweight Animal: mouse, Animal sex: male, Remarks on results: other:Generation: all major orans incl. reproductive organs were examined (migrated information)

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NOAEL (animal/female, F0/P)	1785 mg/kg bodyweight Animal: mouse, Animal sex: female, Remarks on results: other:Generation: all major organs incl. reproductive organs were examined (migrated information)
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STOT-single exposure : May cause respiratory irritation.

styrene (100-42-5)	
STOT-single exposure	May cause respiratory irritation.

phthalic anhydride (85-44-9)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Causes damage to organs (hearing organs) through prolonged or repeated exposure (inhalation).

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
NOAEL (subchronic, oral, animal/male, 90 days)	10 mg/kg bodyweight Animal: mouse, Animal sex: male
STOT-repeated exposure	Causes damage to organs (hearing organs) through prolonged or repeated exposure.

diethylene glycol (111-46-6)	
LOAEL (oral, rat, 90 days)	40000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

phthalic anhydride (85-44-9)	
LOAEL (oral, rat, 90 days)	2500 mg/kg bodyweight Animal: rat, Animal sex: male

ethylene glycol (107-21-1)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

maleic anhydride (108-31-6)	
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 through prolonged or repeated exposure.

reaction product: bisphenol-A(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	
NOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: other:japanese MITI guidelines for toxicity testing of chemicals

Aspiration hazard : Not classified

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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 %

11.2.2 Other information

Other information : Information on Effects: refer to section 4

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful 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) : Harmful to aquatic life with long lasting effects.
Not rapidly degradable

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)
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'

diethylene glycol (111-46-6)

LC50 - Fish [1]	75200 mg/l Test organisms (species): Pimephales promelas
EC50 96h - Algae [1]	6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	9362 mg/l Test organisms (species): other:green algae
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'

phthalic anhydride (85-44-9)

LC50 - Fish [1]	560 mg/l Danio rerio
EC50 - Crustacea [1]	> 640 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	100 mg/l Desmodesmus subspicatus
NOEC (chronic)	16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	10 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '60 d'
NOEC chronic crustacea	16 mg/l Daphnia magna
NOEC chronic algae	≥ 100 mg/l Desmodesmus subspicatus

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ethylene glycol (107-21-1)	
LC50 - Fish [1]	72860 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	3536 mg/l Test organisms (species): other:grenn algae
EC50 96h - Algae [2]	6500 – 13000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): Americamysis bahia (previous name: Mysidopsis bahia) Duration: '23 d'
NOEC chronic fish	15380 mg/l Pimephales promelas
NOEC chronic crustacea	8590 mg/l Ceriodaphnia dubia

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

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	
LC50 - Fish [1]	1,2 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	1,8 mg/l Daphnia magna
EC50 72h - Algae [1]	9,4 mg/l Test organisms (species): Scenedesmus capricornutum
EC50 72h - Algae [2]	> 11 mg/l Test organisms (species): Scenedesmus capricornutum
ErC50 algae	11 mg/l Scenedesmus capricornutum
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0,3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

styrene (100-42-5)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	1,96 g O ₂ /g substance
Chemical oxygen demand (COD)	2,8 g O ₂ /g substance
Biodegradation	70,9 %

diethylene glycol (111-46-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	90 – 100 % 28 days

phthalic anhydride (85-44-9)	
Persistence and degradability	Readily biodegradable.
Biodegradation	82 % 28 days; OECD 301C

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ethylene glycol (107-21-1)

Persistence and degradability	Biodegradability in water: no data available.
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maleic anhydride (108-31-6)

Persistence and degradability	Readily biodegradable.
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reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700) (25068-38-6)

Persistence and degradability	Not readily biodegradable.
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Biodegradation	12 % 28 days, 302B OECD
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12.3. Bioaccumulative potential

Repair resin

Partition coefficient n-octanol/water (Log Pow)	2,96 (25°C, for styrene)
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styrene (100-42-5)

Partition coefficient n-octanol/water (Log Pow)	2,95
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Bioaccumulative potential	Potential to bioaccumulate is low.
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diethylene glycol (111-46-6)

Partition coefficient n-octanol/water (Log Pow)	-1,98
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Bioaccumulative potential	Bioaccumulation unlikely.
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phthalic anhydride (85-44-9)

Partition coefficient n-octanol/water (Log Pow)	1,6
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Bioaccumulative potential	Bioaccumulation unlikely.
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ethylene glycol (107-21-1)

Partition coefficient n-octanol/water (Log Kow)	-1,36
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Bioaccumulative potential	No bioaccumulation data available.
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maleic anhydride (108-31-6)

Bioaccumulative potential	No bioaccumulation data available.
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reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700) (25068-38-6)

BCF - Fish [1]	100 – 3000
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Partition coefficient n-octanol/water (Log Pow)	3 – 5 25°C
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Bioaccumulative potential	Bioconcentration potential is moderate.
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12.4. Mobility in soil

styrene (100-42-5)

Partition coefficient n-octanol/water (Log Koc)	352
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Ecology - soil	moderately.
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diethylene glycol (111-46-6)	
Partition coefficient n-octanol/water (Log K _{oc})	-1,1
Ecology - soil	moderately.

phthalic anhydride (85-44-9)	
Partition coefficient n-octanol/water (Log K _{oc})	0,3 – 1,49 Soil; OECD 106

ethylene glycol (107-21-1)	
Partition coefficient n-octanol/water (Log K _{oc})	0
Ecology - soil	No data available.

maleic anhydride (108-31-6)	
Ecology - soil	No data available.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) (25068-38-6)	
Partition coefficient n-octanol/water (Log K _{oc})	1800 – 4400
Ecology - soil	low mobility.

12.5. Results of PBT and vPvB assessment

Repair resin
The product does not meet the PBT and vPvB classification criteria

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Act of 14 December 2012 on waste(J.o.L. 2013, item 322 as amended; consolidated text J.o.L. 2020, item 797). Act of 13 June 2013 on the management of packaging and packaging waste(J.o.L. 2013, item 888 as amended; consolidated text J.o.L. 2020, item 1114). Regulation of the Minister of Climate of 2 January 2020 on the catalogue of waste(J.o. L 2020, article 10).

Waste treatment methods : The holder of product waste and packaging waste is obliged to handle the waste in a manner consistent with the principles of waste management specified in the Act on the management of packaging and packaging waste, the Act on waste and environmental protection requirements. The resulting product waste and packaging waste should be stored, transported, collected and recovered, including recycling or neutralization, in accordance with the provisions of the Act on waste and related regulations. Un used product as well as contaminated packaging should be sent to an entity authorized to collect hazardous waste. The waste classification should be applied, using the appropriate codes and names in accordance with the applicable waste catalog. The disposal of waste to soil and ground, sewage systems, rivers, water reservoirs is prohibited. Dispose of contents/container in accordance with licensed collector's sorting instructions.

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SECTION 14: Transport information



ADR Certificate : 6/2019

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1866	UN 1866	UN 1866	UN 1866	UN 1866
14.2. UN proper shipping name				
RESIN SOLUTION (flammable)	RESIN SOLUTION (flammable)	Resin solution (flammable)	RESIN SOLUTION (flammable)	RESIN SOLUTION (flammable)
Transport document description				
UN 1866 RESIN SOLUTION (flammable), 3, III, (D/E)	UN 1866 RESIN SOLUTION (flammable), 3, III	UN 1866 Resin solution (flammable), 3, III	UN 1866 RESIN SOLUTION (flammable), 3, III	UN 1866 RESIN SOLUTION (flammable), 3, III
14.3. Transport hazard class(es)				
3	3	3	3	3
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
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 containers special provisions (ADR) : TP1
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR): V12
Special provisions for carriage - Operation (ADR): S2
Hazard identification number (Kemler No.) : 30
Orange plates : 

Tunnel restriction code (ADR) : D/E

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Transport by sea

Special provisions (IMDG)	: 223, 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Miscibility with water depends upon the composition.

Air transport

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

Inland waterway transport

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

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

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

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

Reference code	Applicable on	Entry title or description
3(a)	Repair resin ; 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

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3(b)	Repair resin ; styrene ; diethylene glycol ; ethylene glycol ; reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	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)	Repair resin ; styrene ; reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)	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.

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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.

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

VOC content : < 540 g/l Directive 2004/42/CE Annex II B, primer

15.1.2. National regulations

: * 2011 m. vasario 17 d. KOMISIJOS REGLAMENTAS (ES) Nr. 143/2011, kuriuo iš dalies keičiamas Europos Parlamento ir Tarybos reglamento (EB) Nr. 1907/2006 dėl cheminių medžiagų registracijos, įvertinimo, autorizacijos ir apribojimų (REACH) XIV priedas.
* 2011 m. vasario 17 d. Komisijos reglamento (ES) Nr. 143/2011, kuriuo iš dalies keičiamas Europos Parlamento ir Tarybos reglamento (EB) Nr. 1907/2006 dėl cheminių medžiagų registracijos, įvertinimo, autorizacijos ir apribojimų (REACH) XIV priedas, klaidų ištaisymas.
* LIETUVOS RESPUBLIKOS CHEMINIŲ MEDŽIAGŲ IR PREPARATŲ ĮSTATYMAS (Žin., 2000, Nr. 36987; 2008, Nr. 763000)
* LIETUVOS RESPUBLIKOS VYRIAUSYBĖS 2010 m. gegužės 19 d. NUTARIMAS Nr. 557 "Dėl Lietuvos Respublikos Vyriausybės 2007 m. liepos 11 d. nutarimo Nr. 687 Dėl 2006 m. gruodžio 18 d. Europos Parlamento ir Tarybos reglamento (EB) Nr. 1907/2006 dėl cheminių medžiagų registracijos, įvertinimo, autorizacijos ir apribojimų (REACH), įsteigiančio Europos cheminių medžiagų agentūrą, iš dalies keičiančio Direktyvą 1999/45/EB bei panaikinančio Tarybos reglamentą (EEB) Nr. 793/93, Komisijos reglamentą (EB) Nr. 1488/94, Tarybos direktyvą 76/769/EEB ir Komisijos direktyvas 91/155/EEB, 93/67/EEB, 93/105/EB bei 2000/21/EB, ir 2008 m. gruodžio 16 d. Europos Parlamento ir Tarybos reglamento (EB) Nr. 1272/2008 dėl cheminių medžiagų ir mišinių klasifikavimo, ženklinimo ir pakavimo, iš dalies keičiančio ir panaikinančio direktyvas 67/548/EEB bei 1999/45/EB ir iš dalies keičiančio reglamentą (EB) Nr. 1907/2006, įgyvendinimo" pakeitimo". (Žin., 2007, Nr. 783135; 2009, Nr. 80334; Žin., 2010, Nr. 11531, Nr. 592896; 2011, 1366457; 2012, 733786).
* DUOMENŲ IR INFORMACIJOS APIE LIETUVOS RESPUBLIKOJE GAMINAMAS, IMPORTUOJAMAS, PLATINAMAS, EKSPORTUOJAMAS IR PROFESIONALIAI NAUDOJAMAS CHEMINES MEDŽIAGAS IR PREPARATUS, JŲ SAVYBES, GALIMĄ POVEIKĮ ŽMOGAUS SVEIKATAI IR APLINKAI TEIKIMO, RINKIMO, KAUPIMO BEI TOLIMESNIO PASISKIRSTYMO TVARKOS APRAŠAS, patvirtintas Lietuvos Respublikos aplinkos ministro 20061012 įsakymu Nr. D1462 (Žin., 2006, Nr. 1114249; 2007, Nr. 22855; 2008, Nr. 361315, Nr. 833317; 2009, Nr. 1476609; 2010, Nr. 613019; 2012, 723756).
* CHEMINIŲ MEDŽIAGŲ IR PREPARATŲ APSKAITOS TVARKOS APRAŠAS, patvirtintas Lietuvos Respublikos aplinkos ministro 2008.07.02 įsakymu Nr. D1360 (Žin., 2008, Nr. 773049, Nr. 1234688; 2009, Nr. 17672).
* 2006 m. gruodžio 18 d. EUROPOS PARLAMENTO IR TARYBOS REGLAMENTAS (EB) NR. 1907/2006 DĖL CHEMINIŲ MEDŽIAGŲ REGISTRACIJOS, ĮVERTINIMO, AUTORIZACIJOS IR APRIBOJIMŲ (REACH), įsteigiantis Europos cheminių medžiagų agentūrą, iš dalies keičiantis Direktyvą 1999/45/EB bei panaikinantis Tarybos reglamentą (EEB) Nr. 793/93, Komisijos reglamentą (EB) Nr. 1488/94, Tarybos direktyvą 76/769/EEB ir Komisijos direktyvas 91/155/EEB, 93/67/EEB, 93/105/EB bei 2000/21/EB (OL L 396, 2006 12 30, p. 1—850)
* 2008 m. gruodžio 16 d. EUROPOS PARLAMENTO IR TARYBOS REGLAMENTAS Nr. 1272/2008 (CLP) dėl medžiagų ir mišinių klasifikavimo, ženklinimo ir pakavimo, iš dalies keičiantis ir panaikinantis Direktyvą 67/548/EEB ir 1999/45/EB bei iš dalies keičiantis Reglamentą (EB) Nr. 1907/2006.
* 2010 m. gegužė 20 d. KOMISIJOS REGLAMENTAS (ES) Nr. 453/2010, EUROPOS PARLAMENTO IR TARYBOS REGLAMENTAS (EB) Nr. 1907/2006 dėl medžiagų registracijos, įvertinimo, autorizacijos ir apribojimo (REACH).
* 2015 m. gegužės 28 d. KOMISIJOS REGLAMENTAS (ES) 2015/830 kuriuo iš dalies keičiamas Europos Parlamento ir Tarybos reglamentas (EB) Nr. 1907/2006 dėl cheminių medžiagų registracijos, įvertinimo, autorizacijos ir apribojimų (REACH).

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* 2020 m. birželio 18 d. KOMISIJOS REGLAMENTAS (ES) 2020/878, kuriuo iš dalies keičiamas EUROPOS PARLAMENTO IR TARYBOS REGLAMENTAS (EB) Nr. 1907/2006 dėl cheminių medžiagų registracijos, įvertinimo, autorizacijos apribojimų (REACH) II priedas.

* TARYBOS DIREKTYVA Nr. 75/442/EEB dėl atliekų ir TARYBOS DIREKTYVA Nr. 91/689/EEB Dėl pavojingų atliekų. Komisijos sprendimas Nr 2000/532/EB (2000 m. gegužės 3d.), nurodant atliekų sąrašą.

* EUROPOS PARLAMENTO IR TARYBOS DIREKTYVA 2008/98 / EB 2008 m. Lapkričio 19 d. dėl atliekų ir panaikinanti tam tikras direktyvas.

* 2011 m. Rugsėjo 19 d. Pavojingų krovinių vežimo įstatymas (Įstatymų leidinys Nr. 227, 1367 punktas) su vėlesniais pakeitimais.

* Lietuvos higienos normos HN 23:2011.2020 m. sausio 2 d. Klimato ministro reglamentas dėl atliekų katalogo (J.o. L 2020, 10 straipsnis).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

SECTION 2. SECTION 9.

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
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

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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

- Data sources : Supplier's safety documents. ECHA (European Chemicals Agency).
- Training advice : Workplace: required documents confirming completion of training in the field of health and safety and fire protection at the workplace. The employer is obliged to inform all employees who have contact with the product about hazards and personal protection measures specified in this safety data sheet.
- Other information : The above information is based on the current data characterizing the product as well as the experience and knowledge of the manufacturer in this field. They do not constitute a quality description of a product or a promise of specific properties. They should be treated as an aid for safe handling in transport, storage and use of the product. This does not release the user from responsibility for the improper use of the above information and from compliance with all legal standards in this field.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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 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
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 RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
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.

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H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 3	H226	On basis of test data
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361d	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Chronic 3	H412	Calculation method

SDS_EU_SOLL

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.