

Safety Data Sheet

According to Regulation EC No. 1907/2006

216 COVB GP Polyester-Laminierharz

Date of issue/Date of revision: 01.08.2022

en / EU - Version 1.1

1. Identification of the substance/preparation and of the company/undertaking**1.1 Identification of the substance or preparation:**

216 COVB GP Polyester-Laminierharz

1.2 Use of the substance/preparation:

Resins

Recommended restrictions:

Reserved for industrial and professional use on use.

1.3 Company/undertaking identification

Company name:

Gößl + Pfaff GmbH

Street:

Münchener Str. 13

Place:

85123 Karlskron/Brautlach

Telephone:

+49 (0) 8450 / 932-0

Fax.:

+49 (0) 8450 / 932-13

Contact person:

Management: Mr. Gößl, Mr. Pfaff

E-Mail:

info@goessl-pfaff.de

Internet:

www.goessl-pfaff.de

Responsible Department:

Management

1.4 Emergency telephone**Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463****2. Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3

H226: Flammable liquid and vapor.

Skin irritation, Category 2

H315: Causes skin irritation.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Reproductive toxicity, Category 2

H361d: Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure,

Category 3, Respiratory system

H335: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure,

Category 1

H372: Causes damage to organs through prolonged or repeated exposure.

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms:

**Signal word:**

Danger

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements:

Prevention:

- P201 Obtain special instructions before use.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 Do not breathe mist or vapours.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

- P405 Store locked up.

Disposal:

- P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Hazardous components which must be listed on the label:

styrene

Additional Labelling

- EUH208 Contains 2-phenylpropene, cobalt bis(2-ethylhexanoate).
 May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature: Resin

Components

Chemical name	CAS-No. EC-No. INDEX-No. Registration number	Classification	Concentration (% w/w)
styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 <hr/> Acute toxicity estimate Acute inhalation toxicity (vapor): 11,8 mg/l	>= 30 – < 50

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2-phenylpropene	98-83-9 202-705-0 601-027-00-6 01-2119472426-35	Flam. Liq. 3; H226 Eye Irrit. 2; H319 Skin Sens. 1; H317 Repr. 2; H361 STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 specific concentration limit STOT SE 3; H335 >= 25 % Acute toxicity estimate Acute inhalation toxicity (vapor): > 20 mg/l	>= 0,1 – < 1
cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6 01-2119524678-29	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 1B; H360Fd Aquatic Acute 1; H400 Aquatic Chronic 3; H412	>= 0,01 – < 0,01

For explanation of abbreviations see section 16.

4. First aid measures

4.1 Description of first aid measures

General advice:

In the case of accident or if you feel unwell, seek medical advice immediately.

Move out of dangerous area.

Take off contaminated clothing and shoes immediately.

Do not leave the victim unattended.

Symptoms of poisoning may appear several hours later.

Show this material safety data sheet to the doctor in attendance.

Protection of first-aiders:

First Aid responders should pay attention to self-protection and use the recommended protective clothing

If inhaled:

Move to fresh air.

Keep patient warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

In case of skin contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Keep eye wide open while rinsing.

If easy to do, remove contact lens, if worn.

Consult a physician.

If swallowed:

Rinse mouth with water.

Do NOT induce vomiting.

Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks:

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated exposure.6

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment:

Treat symptomatically.

Keep under medical supervision for at least 48 hours.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂)

Dry powder

Water spray jet

Alcohol-resistant foam

Unsuitable extinguishing media:

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting:

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

Hazardous combustion products:

Hazardous decomposition products due to incomplete combustion.

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information:

Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:

Wear personal protective equipment.

Evacuate personnel to safe areas.

Ensure adequate ventilation, especially in confined areas.

Remove all sources of ignition.

Do not smoke.

Avoid contact with skin, eyes and clothing.

Sweep up to prevent slipping hazard.

In the case of vapor formation use a respirator with an ap- proved filter.

6.2 Environmental precautions

Environmental precautions:

Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal. Do not flush with water.

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6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

Keep container closed when not in use.
Provide sufficient air exchange and/or exhaust in work rooms.
Wear personal protective equipment.

Roller application or brushing

Use long handled brushes and rollers.

Advice on protection against fire and explosion:

Vapors may form explosive mixtures with air. Keep away from open flames, hot surfaces and sources of ignition.
Do not smoke. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Further information on storage conditions:

Keep away from heat and sources of ignition. Protect from moisture. Keep away from direct sunlight.
Do not store at temperatures above 30 °C / 86 °F.

Advice on common storage:

Storage class (TRGS 510): 3

7.3 Specific end use(s)

Specific use(s):

No data available

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
styrene	100-42-5	AGW	20 ppm 86 mg/m ³	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
2-phenylpropene	98-83-9	STEL	100 ppm 492 mg/m ³	2000/39/EC
	Further information: Indicative			
		TWA	50 ppm 246 mg/m ³	2000/39/EC
	Further information: Indicative			
		AGW	50 ppm 250 mg/m ³	DE TRGS 900
	Peak-limit category: 2;(I)			

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Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
styrene	100-42-5	mandelic acid + phenylglyoxylic acid: 600 mg/g Creatinine (Urine)	In case of long-term exposure: after more than one shift, Immediately after exposure or after working hours	TRGS 903

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
styrene	Workers	Dermal	Long-term systemic effects, Chronic effects	406 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects, Chronic effects	85 mg/m ³
	Workers	Inhalation	Acute systemic effects, Chronic effects	289 mg/m ³
	Workers	Inhalation	Acute local effects, Short-term exposure	306 mg/m ³
	Consumers	Oral	Long-term systemic effects, Chronic effects	2.1 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects, Chronic effects	343 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Chronic effects	10.0 mg/m ³
	Consumers	Inhalation	Acute systemic effects, Short-term exposure	174.25 mg/m ³
	Consumers	Inhalation	Acute local effects, Short-term exposure	182.75 mg/m ³
2-phenylpropene	Workers	Inhalation	Long-term systemic effects	246 mg/m ³
	Workers	Inhalation	Acute local effects	492 mg/m ³
	Workers	Skin contact	Long-term systemic effects	2,8 mg/kg
	Consumers	Skin contact	Long-term local effects	0,105 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4,83 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	1,4 mg/kg
	Consumers	Skin contact	Long-term local effects	0,052 mg/kg
	Consumers	Ingestion	Long-term systemic effects	0,1 mg/kg
cobalt bis(2-ethylhexanoate)	Workers	Inhalation	Long-term local effects	0,2351 mg/m ³
	Consumers	Inhalation	Long-term local effects	0,0037 mg/m ³
	Consumers	Oral	Long-term systemic effects	0,175 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
styrene	Fresh water	0.028 mg/l
	Marine water	0.014 mg/l
	Fresh water sediment	0.614 mg/kg dry weight (d.w.)
	Marine sediment	0.307 mg/kg dry weight (d.w.)
	Soil	0.2 mg/kg dry weight (d.w.)
	Sewage treatment plant	5 mg/l
	2-phenylpropene	Fresh water
	Marine water	0.0008 mg/l
	Fresh water sediment	0.583 mg/kg
	Marine sediment	0.0583 mg/kg
	Sewage treatment plant	66.15 mg/l
	Soil	0.112 mg/kg
cobalt bis(2-ethylhexanoate)	Fresh water	0.0006 mg/l
	Marine water	0.00236 mg/l
	Sewage treatment plant	0.37 mg/l
	Fresh water sediment	53.8 mg/kg dry weight (d.w.)
	Marine sediment	69.8 mg/kg dry weight (d.w.)
	Soil	10.9 mg/kg

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8.2 Exposure controls

Personal protective equipment

Eye protection:

Safety glasses with side-shields conforming to EN166

Hand protection

Material: Fluorinated rubber
 Break through time: > 480 min
 Glove thickness: >= 0.4 mm
 Directive: DIN EN 374
 Protective index: Class 6

Remarks:

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

Preventive skin protection

In case of contact through splashing:

Nitrile rubber

Butyl gloves are not suitable.

Avoid natural rubber gloves.

Skin and body protection:

Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres.

Long sleeved clothing

Respiratory protection:

Apply technical measures to comply with the occupational exposure limits.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Filter type: Combined particulates and organic vapour type (A-P)

Protective measures:

Ensure that eye flushing systems and safety showers are located close to the working place.

Avoid contact with the skin and the eyes. Use only with adequate ventilation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Color	: blue
Odor	: characteristic
Melting point/range	: -30 °C Literary value styrene
Boiling point/boiling range	: 145 °C (1.013 hPa) Literary value styrene
Upper explosion limit / Upper flammability limit	: 6,1 %(V) Literary value styrene
Lower explosion limit / Lower flammability limit	: 1,1 %(V) Literary value styrene

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Flash point	: 31 °C(1.013 hPa) Literary value styrene
Autoignition temperature	: 490 °C (1.013 hPa) Literary value styrene
pH	: Not applicable substance/mixture is non-soluble (in water)
Viscosity	
Viscosity, dynamic	: 1.100 - 13.000 mPa.s (23 °C)
Viscosity, kinematic	: not determined
Solubility(ies)	
Water solubility	: 0,32 g/l (25 °C) Literary value styrene
Partition coefficient: n-octanol/water	: No data available
Vapor pressure	: 6,67 hPa (20 °C) Literary value styrene
Density	: ca. 1,1 g/cm ³ (23 °C)

9.2 Other information

Explosives:	Not explosive In use, may form flammable/explosive vapor-air mixture.
Self-ignition:	not auto-flammable

10. Stability and reactivity**10.1 Reactivity**

No decomposition if used as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions**Hazardous reactions:**

Avoid radical-forming starting agents, peroxides and reactive metals.

Polymerization can occur. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers.

10.4 Conditions to avoid

Conditions to avoid:

Heat, flames and sparks.

Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid:

Strong acids and oxidizing agents

polymerization initiators

Copper Copper alloys

Brass

10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

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11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
 Exposure time: 4 h
 Test atmosphere: vapor
 Method: Calculation method

Components: **styrene**

Acute oral toxicity : LD50 Oral (Rat): 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 11,8 mg/l
 Exposure time: 4 h
 Test atmosphere: vapor

Acute toxicity estimate: 11,8 mg/l
 Test atmosphere: vapor
 Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg
 Method: OECD Test Guideline 402

2-phenylpropene:

Acute oral toxicity : LD50 Oral (Rat): ca. 4.900 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
 Exposure time: 4 h
 Test atmosphere: vapor
 Method: Expert judgment

LC50 (Rat): 22,85 mg/l
 Exposure time: 6 h
 Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rabbit): 14.560 mg/kg

cobalt bis(2-ethylhexanoate):

Acute oral toxicity: LD50 (Rat): 3.129 mg/kg
 Method: OECD Test Guideline 425

Acute dermal toxicity: LD50 (Rat): > 2.000 mg/kg
 Method: OECD Test Guideline 402

Skin corrosion/irritation

Causes skin irritation.

Components:

styrene:

Species: Rabbit
 Result: irritating

Serious eye damage/eye irritation

Causes serious eye irritation.

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Components:**styrene:**

Species: Rabbit
Result: irritating

cobalt bis(2-ethylhexanoate):

Result: Moderate eye irritation

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:**styrene:**

Species: Guinea pig
Result: Does not cause skin sensitization.

2-phenylpropene:

Test type: Local lymph node assay (LLNA)
Species: Mouse
Method: OECD Test Guideline 429
Result: The product is a skin sensitizer, sub-category 1B.
GLP: yes

cobalt bis(2-ethylhexanoate):

Routes of exposure: Skin contact
Result: The product is a skin sensitizer, sub-category 1A.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging the unborn child.

Components:**Styrene:****Reproductive toxicity - Assessment:**

Suspected of damaging the unborn child., Some evidence of adverse effects on development, based on animal experiments.

2-phenylpropene:**Reproductive toxicity – Assessment:**

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

Suspected of damaging fertility or the unborn child.

cobalt bis(2-ethylhexanoate):**Reproductive toxicity – Assessment:**

Clear evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.

STOT-single exposure

May cause respiratory irritation.

Components:**styrene:**

Assessment:
May cause respiratory irritation.

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STOT-repeated exposure

Causes damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

Components:

styrene:

Routes of exposure: Inhalation

Target Organs: hearing organs

Assessment: Causes damage to organs through prolonged or repeated exposure

Aspiration toxicity

Not classified based on available information.

Components:

styrene:

May be fatal if swallowed and enters airways.

2-phenylpropene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12. Ecological information

12.1 Toxicity

Components:

styrene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4,02 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 4,7 mg/l
aquatic invertebrates : Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 (Selenastrum capricornutum (green algae)): 4,9 mg/l
plants : Exposure time: 72 h

EC10 (Selenastrum capricornutum (green algae)): 0,28 mg/l
Exposure time: 96 h

Toxicity to microorganisms : EC50 (Natural microorganism): ca. 500 mg/l
Method: OECD Test Guideline 209

Toxicity to daphnia and other : NOEC: 1,01 mg/l
aquatic invertebrates (Chronic toxicity) : Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

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Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

2-phenylpropene:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2,97 mg/l
End point: mortality
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,645 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 11,44 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): > 2.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,401 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

cobalt bis(2-ethylhexanoate):

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 48 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia dubia (Water flea)): 0,61 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,144 mg/l
End point: Growth rate
Exposure time: 72 h

Toxicity to microorganisms : EC10 (Bacteria): 3,73 mg/l
Exposure time: 3 h

Toxicity to fish (Chronic toxicity) : NOEC: 0,21 mg/l
End point: mortality
Exposure time: 34 d
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0608 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

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12.2 Persistence and degradability**Components:****styrene:**

Biodegradability:

Result: Readily biodegradable.

Biodegradation: 70,9 %

Exposure time: 28 d

12.3 Bioaccumulative potential**Components:****styrene:**

Partition coefficient: n- octanol/water: log Pow: 2,96 (25 °C)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment**Product:**

Assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects:**Product:**

Assessment:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects:**Product:**

Additional ecological information:

No data available

13. Disposal considerations**13.1 Waste treatment methods****Product:**

Do not dispose of with domestic refuse.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Dispose of in accordance with local regulations.

Dispose of wastes in an approved waste disposal facility. Send to a licensed waste management company.

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Store containers and offer for recycling of material when in accordance with the local regulations.

Packaging that is not properly emptied must be disposed of as the unused product.

Dispose of in accordance with local regulations.

Waste Code:

The following Waste Codes are only suggestions: 07 02 08, other still bottoms and reaction residues

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14. Transport information**14.1 UN number****ADN, ADR, RID, IMDG, IATA:** UN 1866**14.2 UN proper shipping name**

ADN: RESIN SOLUTION

ADR: RESIN SOLUTION

RID: RESIN SOLUTION

IMDG: RESIN SOLUTION

IATA: Resin solution

14.3 Transport hazard class(es)

ADN: 3

ADR: 3

RID: 3

IMDG: 3

IATA: 3

14.4 Packing group**ADN**

Packing group III

Classification Code F1

Hazard Identification Number 30

Labels 3

ADR

Packing group III

Classification Code F1

Hazard Identification Number 30

Labels 3

Tunnel restriction code (D/E)

RID

Packing group III

Classification Code F1

Hazard Identification Number 30

Labels 3

IMDG

Packing group III

Labels 3

EmS Code F-E, S-E**IATA (Cargo)**

Packing instruction (cargoaircraft) 366

Packing instruction (LQ) Y344

Packing group III

Labels Flammable liquids

IATA (Passenger)

Packing instruction (passenger aircraft) 355

Packing instruction (LQ) Y344

Packing group III

Labels Flammable liquids

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14.5 Environmental hazards**ADN**

Environmentally hazardous no

ADR

Environmentally hazardous no

RID

Environmentally hazardous no

IMDG

Marine pollutant no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

Water hazard class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

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16. Other information

Full text of H-Statements

H226	:	Flammable liquid and vapor.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H360F _d	:	May damage fertility. Suspected of damaging the unborn child.
H361	:	Suspected of damaging fertility or the unborn child.
H361 _d	:	Suspected of damaging the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Repr.	:	Reproductive toxicity
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitization
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
TRGS 903	:	c - Biological limit values
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
DE TRGS 900 / AGW	:	Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Further information**Classification of the mixture:**

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

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this MSDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.