

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

gel-top G-T Polyester accelereret

Version		Revision Date:	Date of last issue: 22.06.2022
1.1	DE / EN	18.09.2023	Date of first issue: 22.06.2022

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

1.1 Product identifier

Trade name : gel-top G-T Polyester accelereret

Product code : 132.504

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

Use of the Sub-
stance/Mixture : Resins

Recommended restrictions
on use : Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company : Vosschemie GmbH
Esinger Steinweg 50
25436 Uetersen
Germany
info@vosschemie.de

Telephone : 04122 717 0
Telefax : 04122 717158

Responsible Department : Laboratory

04122 717 0
sds@vosschemie.de

1.4 Emergency telephone

Telephone : Giftinformationszentrum (GIZ)-Nord,
Göttingen, Deutschland
0551 19240

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SECTION 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

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: H226 Flammable liquid and vapor.
 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.

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 vapors.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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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 ingredients which must be listed on the label:

styrene

Additional Labeling

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.

SECTION 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	>= 39 - <= 44

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		STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	
		Acute toxicity estimate Acute inhalation toxicity (vapor): 11,8 mg/l	
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. 1B; 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 - < 0,1
1,4-dihydroxybenzene	123-31-9 204-617-8 604-005-00-4 01-2119524016-51	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Muta. 2; H341 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,001 - < 0,02

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Fatty acids, C9-13-neo-, copper salts	91031-79-7 292-985-0 01-2120796052-54	M-Factor (Acute aquatic toxicity): 10	>= 0,001 - < 0,02
		Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 10	

For explanation of abbreviations see section 16.

SECTION 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 : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Call a physician if irritation develops or persists.
- In case of eye 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.

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Suspected of damaging the unborn child.
Causes damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting 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.

SECTION 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.

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In the case of vapor formation use a respirator with an approved 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.

6.4 Reference to other sections

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

SECTION 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 : Incompatible with oxidizing agents.
Keep away from food and drink.

Storage class (TRGS 510) : 3

7.3 Specific end use(s)

Specific use(s) : No data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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;(I)				
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)				

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	Routes of exposure	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

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	Consumers	Inhalation	Long-term systemic effects, Chronic effects	10,2 mg/m3
	Consumers	Inhalation	Acute systemic effects, Short-term exposure	174,25 mg/m3
	Consumers	Inhalation	Acute local effects, Short-term exposure	182,75 mg/m3
2-phenylpropene	Workers	Inhalation	Long-term systemic effects	246 mg/m3
	Workers	Inhalation	Acute local effects	492 mg/m3
	Workers	Skin contact	Long-term systemic effects	2,8 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	0,105 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4,83 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1,4 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	0,052 mg/cm2
	Consumers	Ingestion	Long-term systemic effects	0,1 mg/kg bw/day
cobalt bis(2-ethylhexanoate)	Workers	Inhalation	Long-term local effects	0,2351 mg/m3
	Consumers	Inhalation	Long-term local effects	0,037 mg/m3
	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
	Sea water	0,014 mg/l
	Fresh water sediment	0,614 mg/kg dry weight (d.w.)
	Sea sediment	0,307 mg/kg dry weight (d.w.)
	Soil	0,2 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	5 mg/l
2-phenylpropene	Fresh water	0,008 mg/l
	Sea water	0,0008 mg/l
	Fresh water sediment	0,583 mg/kg dry weight (d.w.)
	Sea sediment	0,0583 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	66,15 mg/l
	Soil	0,112 mg/kg dry weight (d.w.)
cobalt bis(2-ethylhexanoate)	Fresh water	0,00106 mg/l
	Sea water	0,00236 mg/l

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	Sewage treatment plant (STP)	0,37 mg/l
	Fresh water sediment	53,8 mg/kg dry weight (d.w.)
	Sea sediment	69,8 mg/kg dry weight (d.w.)
	Soil	10,9 mg/kg dry weight (d.w.)

8.2 Exposure controls

Personal protective equipment

Eye/face 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 vapor 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.

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SECTION 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
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	: log Pow: 2,96 (25 °C) Literary value styrene
Vapor pressure	: 6,67 hPa (20 °C) Literary value styrene
Density	: ca. 1,1 g/cm3 (23 °C)

9.2 Other information

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

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SECTION 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.

SECTION 11: Toxicological information

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

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

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Exposure time: 4 h
Test atmosphere: vapor

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

Fatty acids, C9-13-neo-, copper salts:

Acute oral toxicity : LD50 Oral (Rat): 2.066 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Rat): > 3.640 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Causes skin irritation.

Components:

styrene:

Species : Rabbit
Result : irritating

2-phenylpropene:

Species : Rabbit
Method : Draize Test
Result : No skin irritation

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Serious eye damage/eye irritation

Causes serious eye irritation.

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.

Components:**2-phenylpropene:**

Germ cell mutagenicity- Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

Carcinogenicity

Not classified based on available information.

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Components:**2-phenylpropene:**

Species : Rat
Method : OECD Test Guideline 451
Result : negative

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

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., Clear evidence of adverse effects on development, based on animal experiments.

STOT-single exposure

May cause respiratory irritation.

Components:**styrene:**

Assessment : May cause respiratory irritation.

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.

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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.

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

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 4,9 mg/l
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 aquatic invertebrates (Chronic toxicity) : NOEC: 1,01 mg/l
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 203Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,645 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 11,44 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201NOEC (Desmodesmus subspicatus (green algae)): 2,26 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201Toxicity to microorganisms : EC10 (Bacteria): 661,5 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209Toxicity 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 (Fish): 0,8 mg/l
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia dubia (Water flea)): 0,61 mg/l
Exposure time: 48 hToxicity to algae/aquatic plants : EC50 (algae): 0,052 mg/l
Exposure time: 72 hToxicity to microorganisms : EC10 (Bacteria): 3,73 mg/l
Exposure time: 3 hToxicity to fish (Chronic toxicity) : NOEC: 0,21 mg/l
End point: mortality
Exposure time: 34 d
Species: Pimephales promelas (fathead minnow)**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

1,4-dihydroxybenzene:

M-Factor (Acute aquatic toxicity) : 10

Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Fatty acids, C9-13-neo-, copper salts:Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,0384 mg/l
End point: mortality
Exposure time: 96 hToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : Chronic Toxicity Value: 1,6 mg/l
Exposure time: 30 d
Species: FishToxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Chronic Toxicity Value: 1,7 mg/l
Exposure time: 30 d
Species: Daphnia magna (Water flea)**Ecotoxicology Assessment**

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

12.2 Persistence and degradability**Components:****styrene:**Biodegradability : Result: Readily biodegradable.
Biodegradation: 70,9 %
Exposure time: 28 d**2-phenylpropene:**Biodegradability : Result: Not readily biodegradable.
Biodegradation: 56 %
Exposure time: 21 d

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Method: OECD Test Guideline 301D

1,4-dihydroxybenzene:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 70 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

Fatty acids, C9-13-neo-, copper salts:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 11 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Components:

styrene:

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

2-phenylpropene:

Bioaccumulation : Bioconcentration factor (BCF): 12 - 140
Method: OECD Test Guideline 305C

Partition coefficient: n-octanol/water : log Pow: 3,48 (25 °C)
pH: 6

cobalt bis(2-ethylhexanoate):

Partition coefficient: n-octanol/water : log Pow: 2,96 (20 °C)
pH: 7

1,4-dihydroxybenzene:

Partition coefficient: n-octanol/water : log Pow: 0,59

Fatty acids, C9-13-neo-, copper salts:

Bioaccumulation : Bioconcentration factor (BCF): < 225
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : Remarks: No data available

12.4 Mobility in soil

No data available

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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 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.

12.7 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 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

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 1866

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ADR : UN 1866

RID : UN 1866

IMDG : UN 1866

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)

	Class	Subsidiary risks
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 (cargo) : 366

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aircraft)
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

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.

SECTION 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 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

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

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

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

REACH - List of substances subject to authorisation (Annex XIV) : 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.

SECTION 16: Other information

Full text of H-Statements

H226	: Flammable liquid and vapor.
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.
H341	: Suspected of causing genetic defects.
H351	: Suspected of causing cancer.
H360FD	: May damage fertility. May damage the unborn child.
H361	: Suspected of damaging fertility or the unborn child.
H361d	: Suspected of damaging the unborn child.
H372	: Causes damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

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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
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Muta.	: Germ cell mutagenicity
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; AIIC - 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

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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

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 provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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