SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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

1.1 Product identifier

Product name:
SILIKOFTAL® HTL

Chemical name:
Phenyl-Me Polysiloxane Resin

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

Identified uses: Industrial use

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Company Name	:	Evonik Operations GmbH Rellinghauser Str. 1-11 45128 Essen Germany
Telephone	:	+49 201 173 01
Fax	:	+49 201 173 3000
E-mail	:	productsafety-cs@evonik.com

1.4 Emergency telephone number:

24-Hour Health Emergency	:	+49 2365 49 2232 +49 2365 49 4423 (Fax)

National Poison Information Service (NPIS)
England, Scotland and Wales: NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Physical Hazards

Flammable liquids	Category 3	H226: Flammable liquid and vapor.

Health Hazards

Skin irritation	Category 2	H315: Causes skin irritation.
Serious eye damage	Category 1	H318: Causes serious eye damage.

Specific Target Organ Toxicity - Single Exposure	Category 3	H335: May cause respiratory irritation.
Specific Target Organ Toxicity - Repeated Exposure	Category 2	H373: May cause damage to organs through prolonged or repeated exposure.

2.2 Label Elements

Signal Words: Danger

Hazard Statement(s):

H226: Flammable liquid and vapor.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314: Get medical advice/attention if you feel unwell.

Hazardous ingredients which must be listed on the label:

xylene, mixture of isomers
cyclohexanone

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

Chemical name:
Phenyl-Me Polysiloxane Resin

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	UK-REACH Registration No.	REACH Registration No.	M-Factor:	Notes
xylene, mixture of isomers	10 - <25%	1330-20-7			No data available.	No data available.	#

cyclohexanone	10 - <20%	108-94-1	203-631-1	UK-01-6479148157-1	01-2119453616-35	No data available.	#
methanol	0.1 - <1%	67-56-1	200-659-6		01-2119433307-44	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
# This substance has workplace exposure limit(s).
This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
xylene, mixture of isomers	Classification: Flam. Liq.: 3: H226; Acute Tox.: 4: H312; Acute Tox.: 4: H332; Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; STOT SE: 3: H335; STOT RE: 2: H373; Asp. Tox.: 1: H304; Aquatic Chronic: 3: H412; Supplemental label information: None known.	Note C
cyclohexanone	Classification: Flam. Liq.: 3: H226; Acute Tox.: 4: H302; Acute Tox.: 4: H312; Acute Tox.: 4: H332; Skin Irrit.: 2: H315; Eye Dam.: 1: H318; Supplemental label information: None known.	None.
methanol	Classification: Flam. Liq.: 2: H225; Acute Tox.: 3: H301; Acute Tox.: 3: H311; Acute Tox.: 3: H331; STOT SE: 1: H370; Supplemental label information: None known.	None.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Remove soiled or soaked clothing immediately

Inhalation: If inhalated remove from side of exposure to fresh air, seek medical advice.

Skin Contact: In case of contact with skin wash off with soap and water. If skin irritation persists, call a physician.

Eye contact: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice

Ingestion: Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.

Personal Protection for First-aid Responders: No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Risk of serious damage to eyes. Skin irritation

Hazards: No data available.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture: In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide benzene Under certain conditions of combustion traces of other toxic substances cannot be excluded

5.3 Advice for firefighters

Special fire fighting procedures: Keep away from sources of ignition. Take action to prevent static discharges. Vapours may form explosive mixtures with air. Cool endangered containers by water spray

Special protective equipment for fire-fighters: Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus and wear protective suit

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Keep away sources of ignition. Ensure adequate ventilation.

6.1.1 For non-emergency personnel: No data available.

6.1.2 For emergency responders: No data available.

6.2 Environmental Precautions: Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

6.3 Methods and material for containment and cleaning up: Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections: For further information on exposure monitoring and disposal see sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures: No data available.

Local/Total ventilation: No data available.

Safe handling advice: Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols.Provide good ventilation of working area (local exhaust ventilation if necessary). Use respiratory

protection during spraying.

Contact avoidance measures: No data available.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: Keep container tightly closed in a cool, well-ventilated place.Keep away from heat.

Safe packaging materials: No data available.

7.3 Specific end use(s): No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values		Source
xylene, mixture of isomers	TWA		50 ppm	220 mg/m3	EH40 WEL (12 2011)
	STEL 15 minutes		100 ppm	441 mg/m3	EH40 WEL (01 2020)
cyclohexanone	TWA		10 ppm	41 mg/m3	EH40 WEL (12 2011)
	STEL 15 minutes		20 ppm	82 mg/m3	EH40 WEL (01 2020)
methanol	TWA		200 ppm	266 mg/m3	EH40 WEL (12 2011)
	STEL 15 minutes		250 ppm	333 mg/m3	EH40 WEL (01 2020)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

Chemical Identity	Parameters / Sampling Time	Exposure Limit Values	Source
xylene, mixture of isomers	Methylhippuric acids Sampling time: End of shift.	650 mmol/mol (Creatinine in urine)	UKEH40BMGV (12 2011)
cyclohexanone	cyclohexanol Sampling time: End of shift.	2 mmol/mol (Creatinine in urine)	UKEH40BMGV (12 2011)

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
xylene, mixture of isomers	Workers	Inhalation	Local, long-term; 221 mg/m3	irritation respiratory tract
	General population	Inhalation	Local, short-term; 260 mg/m3	Neurotoxicity
	General population	Inhalation	Systemic, short-term; 260 mg/m3	Neurotoxicity
	General population	Inhalation	Local, long-term; 65.3 mg/m3	irritation respiratory tract
	General population	Dermal	Systemic, long-term; 125 mg/kg	Neurotoxicity
	Workers	Inhalation	Systemic, short-term; 442 mg/m3	Neurotoxicity

	Workers	Inhalation	Systemic, long-term; 221 mg/m3	Neurotoxicity
	Workers	Dermal	Systemic, long-term; 212 mg/kg	Neurotoxicity
	General population	Inhalation	Systemic, long-term; 65.3 mg/m3	Neurotoxicity
	General population	Oral	Systemic, long-term; 12.5 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Local, short-term; 442 mg/m3	irritation respiratory tract
	General population	Eyes	Local effect;	Low hazard (no threshold derived)
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
cyclohexanone	General population	Oral	Systemic, long-term; 1.5 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, short-term; 4 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 4 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, short-term; 1 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 1 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 1.5 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Inhalation	Systemic, short-term; 20 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Local, short-term; 20 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 5 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Local, long-term; 10 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 2.55 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 10 mg/m3	Repeated dose toxicity
methanol	Workers	Dermal	Systemic, short-term; 20 mg/kg	Acute toxicity
	General population	Inhalation	Local, short-term; 26 mg/m3	Acute toxicity
	General population	Inhalation	Systemic, short-term; 26 mg/m3	Acute toxicity
	General population	Dermal	Systemic, long-term; 4 mg/kg	Acute toxicity
	General population	Dermal	Systemic, short-term; 4 mg/kg	Acute toxicity
	Workers	Inhalation	Systemic, short-term; 130 mg/m3	Acute toxicity
	General population	Inhalation	Systemic, long-term; 26 mg/m3	Acute toxicity
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Dermal	Systemic, long-term; 20 mg/kg	Acute toxicity
	General population	Oral	Systemic, short-term; 4 mg/kg	Acute toxicity
	Workers	Inhalation	Local, short-term; 130 mg/m3	Acute toxicity
	Workers	Inhalation	Systemic, long-term; 130 mg/m3	Acute toxicity
	General population	Inhalation	Local, long-term; 26 mg/m3	Acute toxicity
	General population	Eyes	Local effect;	No hazard identified
	General population	Oral	Systemic, long-term; 4 mg/kg	Acute toxicity
	Workers	Inhalation	Local, long-term; 130 mg/m3	Acute toxicity

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
xylene, mixture of isomers	Sewage treatment plant	6.58 mg/l	
	Aquatic (freshwater)	0.327 mg/l	
	Soil	2.31 mg/kg	
	Sediment (marine water)	12.46 mg/kg	
	Sediment (freshwater)	12.46 mg/kg	
	Aquatic (marine water)	0.327 mg/l	
cyclohexanone	Sewage treatment plant	10 mg/l	
	Soil	0.03 mg/kg	
	Aquatic (marine water)	0.003 mg/l	
	Aquatic (freshwater)	0.033 mg/l	
	Sediment (freshwater)	0.249 mg/kg	
	Sediment (marine water)	0.025 mg/kg	

8.2 Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses

Hand Protection: Material: Butyl rubber.
Break-through time: 60 min
Glove thickness: 0.4 mm

Skin and Body Protection: protective clothing

Respiratory Protection: in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

Hygiene measures: Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Remove soiled or soaked clothing immediately.

Environmental Controls: The environmental regulations on the control and monitoring of environmental exposures are to be observed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color: yellowish

Odor: solvent-like

Odor Threshold: not measured

Freezing point: not measured

Boiling Point: not measured

Flammability: not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not measured

Explosive limit - lower: not measured

Flash Point:	24 °C Method: DIN 53213
Auto-ignition temperature:	not measured
Decomposition Temperature:	not measured
pH:	5 - 7 at 25 °C Concentration: 100 g/l Concentration: 10 % in Water
Viscosity	
Dynamic viscosity:	Approximate 1,300 mPa.s at 25 °C Method: DIN 53019
Kinematic viscosity:	Approximate 1182 mm2/s at 25 °C , Method: calculated
Solubility(ies)	
Solubility in Water:	not measured
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	not measured
Relative density:	not measured
Density:	Approximate 1.1 g/cm3 at 25 °C
Relative vapor density:	not measured

9.2 Other information

Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Self-ignition:	not measured
Metal Corrosion:	Not corrosive to metals
Evaporation Rate:	not measured

SECTION 10: Stability and reactivity

10.1	**Reactivity:**	see section "Possibility of hazardous reactions".
10.2	**Chemical Stability:**	The product is stable under normal conditions.
10.3	**Possibility of hazardous reactions:**	Hydrolysis may result in formation of methanol depending on the specific conditions of use.
10.4	**Conditions to avoid:**	Open flames, sparks or input of much heat
10.5	**Incompatible Materials:**	Not known.
10.6	**Hazardous Decomposition Products:**	Minor amounts of formaldehyde may develop in the presence of air and at temperatures > 150°C. experiments indicate that small amounts of benzene are evolved when heated to approx. 180°C and above.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Inhalation: Information on effects are given below.

Skin Contact: Information on effects are given below.

Eye contact: Information on effects are given below.

Ingestion: Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral

Product:	LD 50, ATEmix, > 5,000 mg/kg
Components:	
xylene, mixture of isomers	LD 50, Rat, Male, 3,523 mg/kg LD 50, Rat, Female, > 4,000 mg/kg
cyclohexanone	LD 50, Rat, 1,620 mg/kg
methanol	LD 50, Rat, 100 mg/kg

Dermal

Product:	LD 50, ATEmix, > 5,000 mg/kg
Components:	
xylene, mixture of isomers	LD 50, Acute toxicity estimate, > 1,100 mg/kg, GB-CLP according to Regulation, UK SI 2019/720, and UK SI 2020/1567
cyclohexanone	LD 50, Rabbit, 1,100 mg/kg
methanol	LD 50, Rat, 300 mg/kg

Inhalation

Product:	LC 50, ATEmix, 4 h, > 40 mg/l, Vapour ATEmix, 56.12 mg/l, Dust and mist
Components:	
xylene, mixture of isomers	LC 50, Acute toxicity estimate, 4 h, > 11 mg/l, Vapour, GB-CLP according to Regulation, UK SI 2019/720, and UK SI 2020/1567 Dust and mist, Not toxic after single exposure, No data available.
cyclohexanone	LC 50, Rat, 4 h, 11 mg/l, Vapour Not toxic after single exposure, Dust and mist, No data available.
methanol	LC 50, Acute toxicity estimate, 4 h, 3 mg/l, Vapour, Vapour LC 50, Acute toxicity estimate, 4 h, > 0.5 mg/l, Dust and mist, Dust and mist

Repeated dose toxicity

Product:	No data available.
Components:	
xylene, mixture of isomers	No data available.
cyclohexanone	No data available.
methanol	No data available.

Skin Corrosion/Irritation

Product:	No data available.
Components:	
xylene, mixture of isomers	Irritating., Rabbit
cyclohexanone	Irritating., OECD 404, Rabbit

methanol	Not irritating, Rabbit, Literature

Serious Eye Damage/Eye Irritation

Product:	No data available.
Components:	
xylene, mixture of isomers	Irritating., Rabbit
cyclohexanone	Risk of serious damage to eyes., OECD 405, Rabbit
methanol	Not irritating, Rabbit

Respiratory or Skin Sensitization

Product:	No data available.
Components:	
xylene, mixture of isomers	Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer.
cyclohexanone	Sensitization test, Guinea Pig, Not a skin sensitizer.
methanol	Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.

Carcinogenicity

Product:	No data available.
Components:	
xylene, mixture of isomers	No data available.
cyclohexanone	No data available.
methanol	Not classified

Germ Cell Mutagenicity

No data available.

In vitro

Product:	No data available.
Components:	
xylene, mixture of isomers	Chromosomal aberration: , negative sister chromatid exchange assay: , negative
cyclohexanone	No data available.
methanol	Ames test, OECD 471: , negative gene mutation test, OECD 476: , negative Micronucleus test: , negative

In vivo

Product:	No data available.
Components:	
xylene, mixture of isomers	dominant lethal test, OECD 478, Dermal, Mouse, Male, negative dominant lethal test, OECD 478, Intraperitoneal, Mouse, Male, negative
cyclohexanone	No data available.
methanol	Micronucleus test, OECD 474, Intraperitoneal, Mouse, Female, Male, negative Chromosomal aberration, Intraperitoneal, Mouse, Female, Male, negative

Reproductive toxicity

Product:	No data available.
Components:	
xylene, mixture of isomers	No data available.
cyclohexanone	No data available.
methanol	Not classified

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

xylene, mixture of isomers	Inhalation - vapor, Respiratory system, Category 3 with respiratory tract irritation.
cyclohexanone	No data available.
methanol	Dermal Oral Inhalation - vapor, optic nerve, Central nervous system., Category 1 Causes damage to organs.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

xylene, mixture of isomers	Oral Inhalation - vapor, Liver, Category 2, May cause damage to organs through prolonged or repeated exposure.
cyclohexanone	No data available.
methanol	No data available.

Aspiration Hazard

Product: Not classified

Components:

xylene, mixture of isomers	May be fatal if swallowed and enters airways.
cyclohexanone	Not classified
methanol	Not classified

11.2 Information on other hazards

Other information

Product: No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

xylene, mixture of isomers	LC 50, Oncorhynchus mykiss, 96 h, 2.6 mg/l OECD 203
cyclohexanone	LC 50, Pimephales promelas, 96 h, 527 mg/l US-EPA-method
methanol	LC 50, Bluegill Sunfish, 96 h, 15,400 mg/l US-EPA-method, Literature

Aquatic Invertebrates

Product: No data available.

Components:

xylene, mixture of isomers	EC 50, Daphnia magna, 24 h, 1 mg/l OECD 202
cyclohexanone	EC 50, Daphnia magna, 48 h, 820 mg/l DIN 38412 part 11
methanol	EC 50, Daphnia magna, 96 h, 18,260 mg/l OECD 202, Literature

Toxicity to Aquatic Plants

Product: No data available.

Components:

xylene, mixture of isomers	EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 4.36 mg/l (OECD 201)
cyclohexanone	EC 50 (Scenedesmus quadricauda (Green algae), 96 h): 370 mg/l
methanol	EC 50 (Selenastrum capricornutum (green algae), 96 h): Approximate 22,000 mg/l (OECD 201) Literature

Toxicity to microorganisms

Product:	No data available.
Components:	
xylene, mixture of isomers	NOEC, activated sludge, 3 h, 157 mg/l, OECD 209
cyclohexanone	EC 50, activated sludge, 0.5 h, > 1,000 mg/l, OECD 209
methanol	EC 50, activated sludge, 3 h, > 1,000 mg/l, OECD 209, Literature

Toxicity to soil dwelling organisms

Product:	No data available.
Components:	
xylene, mixture of isomers	No data available.
cyclohexanone	No data available.
methanol	LC 50 (Eisenia fetida (earthworms), 48 h): (OECD 207)

Toxicity to terrestrial organisms

Product:	No data available.
Components:	
xylene, mixture of isomers	No data available.
cyclohexanone	No data available.
methanol	No data available.

Chronic hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
xylene, mixture of isomers	NOEC, Oncorhynchus mykiss, 56 d, > 1.3 mg/l NOEC, Oncorhynchus mykiss, 56 d, > 1.3 mg/l
cyclohexanone	No data available.
methanol	No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
xylene, mixture of isomers	NOEC, Ceriodaphnia dubia, 7 d, 1.17 mg/l, US-EPA-method NOEC, Ceriodaphnia dubia, 7 d, 0.96 mg/l, US-EPA-method EL50, Daphnia magna, 21 d, 2.9 mg/l, OECD 211 EC 10, Daphnia magna, 21 d, 1.91 mg/l, OECD 211 NOEC, Daphnia magna, 21 d, 1.57 mg/l, OECD 211
cyclohexanone	No data available.
methanol	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
xylene, mixture of isomers	NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 1.3 mg/l (OECD 201)
cyclohexanone	No data available.
methanol	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
xylene, mixture of isomers	NOEC, activated sludge, 3 h, 157 mg/l, OECD 209
cyclohexanone	EC 50, activated sludge, 0.5 h, > 1,000 mg/l, OECD 209
methanol	EC 50, activated sludge, 3 h, > 1,000 mg/l, OECD 209, Literature

Toxicity to soil dwelling organisms

Product:	No data available.
Components:	
xylene, mixture of isomers	No data available.
cyclohexanone	No data available.
methanol	No data available.

Toxicity to terrestrial organisms

Product:	No data available.
Components:	
xylene, mixture of isomers	No data available.
cyclohexanone	No data available.
methanol	No data available.

12.2 Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
xylene, mixture of isomers	98 %, 28 d, OECD 301 F, The product is easily biodegradable., aerobic
cyclohexanone	90 - 100 %, 28 d, OECD 301 F, The product is easily biodegradable., aerobic
methanol	98 %, 28 d, (DOC; modif. OECD screening test / OECD 301 E), Own study The product is easily biodegradable., aerobic

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:	No data available.
Components:	
xylene, mixture of isomers	No data available.
cyclohexanone	No data available.
methanol	Leuciscus idus (Golden orfe), < 10, Measured, No significant bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)

Product:	not measured
Components:	
xylene, mixture of isomers	3.16, 20 °C
cyclohexanone	0.86
methanol	-0.77

12.4 Mobility in soil:

Product	No data available.
Components:	
xylene, mixture of isomers	No data available.
cyclohexanone	No data available.
methanol	soil - Log Koc: 1 calculated) Not expected to adsorb on soil.

12.5 Results of PBT and vPvB assessment:

Product	No data available.
Components:	
xylene, mixture of isomers	Non-classified vPvB substance, Non-classified PBT substance
cyclohexanone	No data available.
methanol	Non-classified vPvB substance, Non-classified PBT substance

12.6 Other adverse effects:

Other hazards

Product: Do not allow to enter soil, waterways or waste water canal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: In accordance with local authority regulations, take to special waste incineration plant

Contaminated Packaging: If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

SECTION 14: Transport information

14.1 UN/ID No.

ADR	:	UN 1866
RID	:	UN 1866
IMDG	:	UN 1866
IATA	:	UN 1866

14.2 UN proper shipping name

ADR	:	RESIN SOLUTION
RID	:	RESIN SOLUTION
IMDG	:	RESIN SOLUTION
IATA	:	Resin solution

14.3 Transport hazard class(es)

ADR	:	3
RID	:	3
IMDG	:	3
IATA	:	3

14.4 Packing group

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
Remarks	:	Stowage category A

IATA (Cargo aircraft only)

Packing instruction (cargo aircraft)	:	366
Packing instruction (LQ)	:	Y344
Packing group	:	III
Labels	:	3

IATA (Passenger and cargo aircraft)

Packing instruction (passenger aircraft)	:	355
Packing instruction (LQ)	:	Y344
Packing group	:	III
Labels	:	3

14.5 Environmental hazards

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:

EU Regulations

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Classification	Lower-tier Requirements	Upper-tier

		Requirements
P5c. Flammable liquids	5,000 t	50,000 t

15.2 Chemical safety assessment: No chemical safety assessment was carried out for this product.

International regulations

Montreal protocol
Not applicable

Stockholm convention
Not applicable

Rotterdam convention
Not applicable

Kyoto protocol
Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

EH40 WEL:	UK. EH40 Workplace Exposure Limits (WELs), as amended
UKEH40BMGV:	UK. EH40 Biological Monitoring Guidance Values (BMGVs), as amended
EH40 WEL / STEL:	Short Term Exposure Limit (STEL):
EH40 WEL / TWA:	Time Weighted Average (TWA):

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; EIGA - European Industrial Gases Association; 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

Notes:

Note C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Key literature references and sources for data: No data available.

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

Classification according to Regulation (EC) No 1272/2008 as amended.	**Classification procedure**
Flammable liquids, Category 3	On basis of test data
Skin irritation, Category 2	Calculation method
Serious eye damage, Category 1	On basis of test data
Specific Target Organ Toxicity - Single Exposure, Category 3	Calculation method
Specific Target Organ Toxicity - Repeated Exposure, Category 2	On basis of test data

Wording of the statements in section 2 and 3

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Training information: Comply with national laws regulating employee instruction.

Revision Information Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer:

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