

Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

SAFETY DATA SHEET

1. Identification

Product identifier: SILIKOFTAL® HTL

Chemical name: Phenyl-Me Polysiloxane Resin

Other means of identification

Recommended use: Industrial use

Recommended restrictions: None known.

Manufacturer/Importer/Distributor Information

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

Emergency telephone number:

24-Hour Health

: +49 2365 49 2232

Emergency

+49 2365 49 4423 (Fax)

2. Hazard(s) identification

Classification according to GHS

Physical Hazards

Flammable liquids Category 3

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 1
Specific Target Organ Toxicity - Category 2

Repeated Exposure

Environmental Hazards

Acute hazards to the aquatic Category 3

environment



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Flammable liquid and vapor.

Causes skin irritation.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life.

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep

container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static

discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face

protection.

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing and

wash it before reuse. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

IF exposed or concerned: Get medical advice/attention.

Storage: Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.

Other hazards: None known.

3. Composition/information on ingredients

Chemical name:

Phenyl-Me Polysiloxane Resin



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
xylene, mixture of isomers	No data available.	1330-20-7	10 - <30%
cyclohexanone	No data available.	108-94-1	10 - <30%
ethylbenzene	No data available.	100-41-4	<10%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary 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.

Most important symptoms and effects, both acute and delayed

Symptoms: Risk of serious damage to eyes. Skin irritation

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

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



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

Unsuitable extinguishing media: High volume water jet.

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

Special protective equipment and precautions for fire-fighters

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 combusition gases. Use selfcontained breathing apparatus and wear protective suit

6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures:

Use personal protective equipment. Keep away sources of

ignition. Ensure adequate ventilation.

Accidental release measures: No data available.

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.

Environmental Precautions: Do not allow to enter drains or waterways Prevent product

from getting into subsoil/soil.

7. Handling and storage

Handling

Technical measures (e.g. Local and

general 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.

Storage

Safe storage conditions: Keep container tightly closed in a cool, well-ventilated

place. Keep away from heat.

Safe packaging materials: No data available.



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Observe national threshold limit values.

Biological Limit Values

Observe national threshold limit values.

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: Safety glasses

Skin Protection

Hand Protection: Material: Butyl rubber.

Break-through time: 60 min Glove thickness: 0,4 mm

Other: 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.

9. Physical and chemical properties

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 not measured Flammability:

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not measured Explosive limit - lower: not measured

Flash Point: 75 °F/24 °C (DIN 53213)

Self Ignition Temperature: not measured



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

Decomposition Temperature: not measured

pH: 5 - 7 (100 g/l, 25 °C) in Water

Viscosity

Dynamic viscosity: Approximate 1.300 mPa.s (77 °F/25 °C, DIN 53019) **Kinematic viscosity:** Approximate 1182 mm2/s (77 °F/25 °C, calculated)

Flow Time: No data available.

Solubility(ies)

Solubility in Water: not measured
Solubility (other): not measured
Partition coefficient (n- not measured

octanol/water):

Vapor pressure:not measuredRelative density:not measured

Density: Approximate 1,1 g/cm3 (77 °F/25 °C)

Bulk density:Relative vapor density:
No data available.
not measured

Other information

Explosive properties: not measured

Oxidizing properties: not oxidizing

Minimum ignition temperature: not measured

Metal Corrosion: Not corrosive to metals

Evaporation Rate: not measured

10. Stability and reactivity

Reactivity: see section "Possibility of hazardous reactions".

Chemical Stability: The product is stable under normal conditions.

Possibility of hazardous reactions: Hydrolysis may result in formation of methanol depending

on the specific conditions of use.

Conditions to avoid: Open flames, sparks or input of much heat

Incompatible Materials: Not known.

Hazardous Decomposition 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.

11. Toxicological information

Products:

Information on toxicological effects

Information on likely routes of exposure

Inhalation: Information on effects are given below.



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

Skin Contact: Information on effects are given below.

Eye contact: Information on effects are given below.

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 LD 50 (Rat): 3.523 mg/kg isomers LD 50 (Rat): > 4.000 mg/kg

cyclohexanone LD 50 (Rat): 1.620 mg/kg

ethylbenzene LD 50 (Rat): 3.500 mg/kg

Dermal

Product: LD 50 (ATEmix): > 5.000 mg/kg

Components:

xylene, mixture of LD 50 (Rabbit): > 4.200 mg/kg

isomers

cyclohexanone LD 50 (Rabbit): 1.100 mg/kg

ethylbenzene LD 50 (Rabbit): 15.400 mg/kg

Inhalation

Product: LC 50 (ATEmix, 4 h): > 40 mg/l Vapour

Components:

xylene, mixture of LC 50 (Rat, 4 h): 27,5 mg/l Vapour No data available., Dusts, mists and

isomers fumes

cyclohexanone LC 50 (Rat, 4 h): 11 mg/l Vapour Dusts, mists and fumes, No data available.

ethylbenzene LC 50 (Rat, 4 h): 17,6 mg/l Vapour Dusts, mists and fumes, No data

available.

Repeated dose toxicity

Product: No data available.

Components:

xylene, mixture of No data available.

isomers

cyclohexanone No data available. ethylbenzene No data available.

Skin Corrosion/Irritation

Product: No data available.

Components:

xylene, mixture of (Rabbit): Irritating.

isomers

cyclohexanone OECD 404 (Rabbit): Irritating.



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

(Rabbit): Not irritating ethylbenzene

Serious Eye Damage/Eye

Irritation

Product: No data available.

Components:

xylene, mixture of (Rabbit): Irritating.

isomers

cvclohexanone OECD 405 (Rabbit): Risk of serious damage to eyes.

ethylbenzene (Rabbit): Not irritating

Respiratory or Skin Sensitization

> **Product:** No data available.

Components:

xylene, mixture of Local Lymph Node Assay (LLNA), OECD 429 (Mouse): Not a skin sensitizer.

isomers

cyclohexanone Sensitization test (Guinea Pig): Not a skin sensitizer.

Not a skin sensitizer. Literature ethylbenzene

Carcinogenicity

Product: No data available

Components:

xylene, mixture of No data available.

isomers

No data available. cyclohexanone ethylbenzene No data available.

Germ Cell Mutagenicity

No data available.

In vitro

Product: No data available.

Components:

xylene, mixture of Chromosomal aberration: negative

sister chromatid exchange assay: negative isomers

cvclohexanone No data available.

gene mutation test (OECD 476): negative ethylbenzene

Chromosomal aberration (OECD 473): negative

In vivo

Product: No data available.

Components:

xylene, mixture of dominant lethal test (OECD 478) Dermal (Mouse, Male): negative isomers

dominant lethal test (OECD 478) Intraperitoneal (Mouse, Male): negative

No data available. cyclohexanone

Micronucleus test (OECD 474) Oral (Mouse, Male): negative ethylbenzene

unscheduled DNA synthesis assay (OECD 486) Inhalation - vapor (Mouse,

Female, Male): negative

Reproductive toxicity

Product: No data available.

Components:

xylene, mixture of No data available.

isomers



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

cyclohexanone No data available. ethylbenzene No data available.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Components:

xylene, mixture of Inhalation - vapor: Respiratory system - Category 3 with respiratory tract

isomers irritation.

cyclohexanone No data available. ethylbenzene No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

xylene, mixture of Oral Inhalation - vapor: Liver - Category 2 May cause damage to organs

isomers through prolonged or repeated exposure.

cyclohexanone No data available.

ethylbenzene Oral Inhalation - vapor: Ear - Category 2 May cause damage to organs

through prolonged or repeated exposure.

Aspiration Hazard

Product: Not classified

Components:

xylene, mixture of May be fatal if swallowed and enters airways.

isomers

cyclohexanone Not classified

ethylbenzene May be fatal if swallowed and enters airways.

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

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

cyclohexanone LC 50 (Pimephales promelas, 96 h): 527 mg/l

ethylbenzene LC 50 (Atlantic silverside (Menidia menidia), 96 h): 5,1 mg/l salt water

NOEC (Atlantic silverside (Menidia menidia), 96 h): 3,3 mg/l salt water

LC 50 (Oncorhynchus mykiss, 96 h): 4,2 mg/l

Aquatic Invertebrates

Product: No data available.

Components:



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

xylene, mixture of

EC 50 (Daphnia magna, 24 h): 1 mg/l

isomers

cyclohexanone EC 50 (Daphnia magna, 48 h): 820 mg/l

ethylbenzene LC 50 (Americamysis bahia, 48 h): > 5,2 mg/l salt water

EC 50 (Daphnia magna, 48 h): 1,8 - 2,4 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Components:

xylene, mixture of EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 4,36 mg/l (OECD

isomers 201) growth rate

EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 2,2 mg/l (OECD

201) Biomass

cyclohexanone EC 50 (Scenedesmus quadricauda (Green algae), 96 h): 370 mg/l ethylbenzene EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 5,4 mg/l (US-

EPA-method)

EC 50 (Skeletonema costatum (marine diatom), 72 h): 4,9 mg/l (US-

EPA-method) saltwater

Toxicity to microorganisms

Product: No data available.

Components:

xylene, mixture of NOEC (activated sludge, 3 h): 157 mg/l (OECD 209)

isomers

cyclohexanone EC 50 (activated sludge, 0,5 h): > 1.000 mg/l (OECD 209)

ethylbenzene EC 20 (activated sludge, 0,5 h): Approximate 200 mg/l (OECD 209) EC

50 (activated sludge, 0,5 h): Approximate 600 mg/l (OECD 209)

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

xylene, mixture of NOEC (Oncorhynchus mykiss, 56 d): > 1,3 mg/l isomers NOEC (Oncorhynchus mykiss, 56 d): > 1,3 mg/l

cyclohexanone No data available. ethylbenzene No data available.

Aquatic Invertebrates

Product: No data available.

Components:

xylene, mixture of NOEC (Ceriodaphnia dubia, 7 d): 1,17 mg/l (US-EPA-method) isomers 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.

ethylbenzene LC 50 (Ceriodaphnia dubia, 7 d): 3,6 mg/l (US-EPA-method)

IC 50 (Ceriodaphnia dubia, 7 d): 3,3 mg/l (US-EPA-method) NOEC (Ceriodaphnia dubia, 7 d): 0,96 mg/l (US-EPA-method) Lowest Observed Effect Concentration (Ceriodaphnia dubia, 7 d): 1,7

mg/I (US-EPA-method)

Toxicity to Aquatic Plants

Product: No data available.

Components:



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

xylene, mixture of NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 1,3 mg/l (OECD

isomers 201) growth rate

NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 0,44 mg/l (OECD

201) Biomass

cyclohexanone No data available. ethylbenzene No data available.

Toxicity to microorganisms

Product: No data available.

Components:

xylene, mixture of NOEC (activated sludge, 3 h): 157 mg/l (OECD 209)

isomers

cyclohexanone EC 50 (activated sludge, 0,5 h): > 1.000 mg/l (OECD 209)

ethylbenzene EC 20 (activated sludge, 0,5 h): Approximate 200 mg/l (OECD 209) EC

50 (activated sludge, 0,5 h): Approximate 600 mg/l (OECD 209)

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

ethylbenzene 70 - 80 % (28 d, ISO 14593) The product is easily biodegradable.,

aerobic

BOD/COD Ratio

Product: No data available.

Components:

xylene, mixture of isomers No data available. cyclohexanone No data available. ethylbenzene No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

xylene, mixture of isomers No data available. cyclohexanone No data available. ethylbenzene No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: not measured

Components:

xylene, mixture of isomers Log Kow: 3,16 20 °C cyclohexanone Log Kow: 0,86

ethylbenzene Log Kow: 3,6 20 °C (EU Method A.8)

Mobility in soil:

Product No data available.

Components:

11/13



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

xylene, mixture of isomers No data available. cyclohexanone No data available. ethylbenzene No data available.

Product No data available.

Components:

xylene, mixture of isomers cyclohexanone No data available. No data available. ethylbenzene No data available.

Other adverse effects:

Other hazards

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

13. Disposal considerations

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.

14. Transport information

International Regulations

IATA-DGR

UN/ID No. : UN 1866
Proper shipping name : Resin solution

Class : 3
Packing group : III
Labels : 3
Packing instruction (cargo : 366

aircraft)

Packing instruction : 355

(passenger aircraft)

IMDG-Code

UN number or ID number : UN 1866

Proper shipping name : RESIN SOLUTION

Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

Remarks : Stowage category A

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



Issue Date: 04.03.2019 Last revised date: 09.06.2022 Supersedes Date: 03.03.2020

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.

15. Regulatory information

16.Other information, including date of preparation or last revision

Issue Date: 04.03.2019

Version #: 2.1

Further Information: No data available.

Revision Information: Changes since the last version are highlighted in the margin. This version

replaces all previous versions.

Disclaimer: This information and all further technical advice is based on our present

knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party

intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other

companies is neither a recommendation, nor does it imply that similar

products could not be used.