

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

**Product identifier:** SILIKOPHEN® P 50/X

**Chemical name:**

Solution of a phenylmethyl polysiloxane resin

### Other means of identification

None.

### Recommended restrictions

**Recommended use:** Industrial use

**Restrictions on use:** None known.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation  
Nutrition & Care  
PO Box 34628  
Richmond, VA 23234  
USA

Telephone : +1 804 727 0700

Fax : +1 804 727 0845

E-mail : product-regulatory-services@evonik.com

### Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency : 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Flammable liquids Category 2

#### Health Hazards

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2A

Carcinogenicity Category 2

Specific Target Organ Toxicity -  
Single Exposure Category 3  
(Respiratory tract  
irritation.)

Specific Target Organ Toxicity -  
Repeated Exposure Category 2

Aspiration Hazard Category 1

#### Environmental Hazards

Acute hazards to the aquatic environment	Category 2
Chronic hazards to the aquatic environment	Category 3

### Label Elements

#### Hazard Symbol:



**Signal Word:** Danger

#### Hazard Statement:

Highly flammable liquid and vapor.  
Causes skin irritation.  
Causes serious eye irritation.  
Suspected of causing cancer.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.  
May be fatal if swallowed and enters airways.  
Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.

#### 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. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.

##### Response:

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. 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 INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

##### Storage:

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

##### Disposal:

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

**Hazard(s) not otherwise classified (HNOC):** Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

**3. Composition/information on ingredients**

**Chemical name:**  
 Solution of a phenylmethyl polysiloxane resin  
**Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
xylene, mixture of isomers		1330-20-7	25 - <50%
ethylbenzene		100-41-4	10 - <20%
isobutanol		78-83-1	1 - <3%

<sup>\*</sup> 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 inhaled 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. If symptoms persist, seek medical advice.

**Ingestion:** drink large quantities of water, do not induce vomiting; consult a physician - show this data sheet.

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

**Most important symptoms and effects, both acute and delayed**

**Symptoms:** Serious eye irritation 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.

<b>Unsuitable extinguishing media:</b>	High volume water jet.
<b>Special hazards arising from the substance or mixture:</b>	In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide - Formaldehyde Under certain conditions of combustion traces of other toxic substances cannot be excluded
<b>Special protective equipment and precautions for firefighters</b>	
<b>Special fire fighting procedures:</b>	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
<b>Special protective equipment for fire-fighters:</b>	Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Keep away sources of ignition. Ensure adequate ventilation.
<b>Accidental release measures:</b>	No data available.
<b>Methods and material for containment and cleaning up:</b>	Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.
<b>Environmental Precautions:</b>	Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

## 7. Handling and storage

### Handling

<b>Technical measures (e.g. Local and general ventilation):</b>	No data available.
<b>Safe handling advice:</b>	Provide good ventilation of working area (local exhaust ventilation if necessary). Use respiratory protection during spraying. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.
<b>Contact avoidance measures:</b>	No data available.

### Storage

<b>Safe storage conditions:</b>	Keep container tightly closed in a cool, well-ventilated place. Keep away from heat. Do not store together with oxidizing agents.
<b>Safe packaging materials:</b>	No data available.

## 8. Exposure controls/personal protection

### Control Parameters Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
xylene, mixture of isomers	STEL	150 ppm      655 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)
	REL	100 ppm      435 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)
	PEL	100 ppm      435 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
	AN ESL	180 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL	510 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL	2,200 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	AN ESL	41 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
ethylbenzene	TWA	20 ppm	US. ACGIH Threshold Limit Values, as amended (01 2022)
	TWA	20 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	REL	100 ppm      435 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	STEL	125 ppm      545 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	100 ppm      435 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)
	TWA	50 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
isobutanol	REL	50 ppm      150 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	100 ppm      300 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)

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 name	Parameters / Sampling Time	Exposure Limit Values	Source
xylene, mixture of isomers	Methylhippuric acids Sampling time: End of shift.	1.5 g/g (Creatinine in urine)	ACGIH BEI (03 2016)
ethylbenzene	Sum of mandelic acid and phenylglyoxylic acid Sampling time: End of shift.	0.15 g/g (Creatinine in urine)	ACGIH BEI (03 2016)

### Appropriate Engineering Controls

No data available.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection:

Safety glasses

**Skin Protection**

**Hand Protection:** Material: Fluorinated rubber  
 Break-through time: 480 min

**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.

**9. Physical and chemical properties**

**Information on basic physical and chemical properties**

**Appearance**

**Physical state:** liquid  
**Form:** liquid  
**Color:** Colorless  
**Odor:** of xylene  
**Odor Threshold:** not measured  
**Freezing point:** not measured  
**Boiling Point:** 283.3 °F/139.6 °C Solvent  
**Flammability:** not measured

**Upper/lower limit on flammability or explosive limits**

**Explosive limit - upper:** not measured  
**Explosive limit - lower:** not measured  
**Flash Point:** 70 °F/21 °C (DIN 53213)  
**Auto-ignition temperature:** not measured  
**Decomposition Temperature:** not measured  
**pH:** Not applicable

**Viscosity**

**Dynamic viscosity:** Approximate 30 mPa.s (77 °F/25 °C, DIN 53019)  
**Kinematic viscosity:** Approximate 29 mm<sup>2</sup>/s (77 °F/25 °C, calculated)  
**Flow Time:** No data available.

**Solubility(ies)**

**Solubility in Water:** Insoluble  
**Solubility (other):** not measured  
**Partition coefficient (n-octanol/water):** not measured  
**Vapor pressure:** not measured  
**Relative density:** not measured  
**Density:** 1.02 g/cm<sup>3</sup> (77 °F/25 °C) (DIN 51757)  
**Bulk density:** No data available.  
**Relative vapor density:** not measured

**Other information**

<b>Explosive properties:</b>	not measured
<b>Oxidizing properties:</b>	not oxidizing
<b>Minimum ignition temperature:</b>	not measured
<b>Metal Corrosion:</b>	Not corrosive to metals
<b>Evaporation Rate:</b>	not measured

## 10. Stability and reactivity

<b>Reactivity:</b>	see section "Possibility of hazardous reactions".
<b>Chemical Stability:</b>	The product is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Hydrolysis may result in formation of methanol depending on the specific conditions of use.
<b>Conditions to avoid:</b>	Open flames, sparks or input of much heat
<b>Incompatible Materials:</b>	Oxidizing agents.
<b>Hazardous Decomposition Products:</b>	in the presence of air small amounts of formaldehyde are evolved due to oxidative decomposition when heated to and above 150°C. experiments indicate that small amounts of benzene are evolved when heated to approx. 180°C and above.

## 11. Toxicological information

### Information on toxicological effects

#### Information on likely routes of exposure

<b>Inhalation:</b>	Information on effects are given below.
<b>Skin Contact:</b>	Information on effects are given below.
<b>Eye contact:</b>	Information on effects are given below.
<b>Ingestion:</b>	Information on effects are given below.

#### Acute toxicity (list all possible routes of exposure)

##### Oral

**Product:** LD 50 (ATEmix): 2,558 mg/kg

##### Dermal

**Product:** LD 50 (ATEmix): > 5,000 mg/kg

##### Inhalation

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

#### Repeated dose toxicity

**Product:** No data available.

#### Skin Corrosion/Irritation

**Product:** No data available.

#### Serious Eye Damage/Eye Irritation

**Product:** No data available.

**Respiratory or Skin Sensitization****Product:** No data available.**Carcinogenicity****Product:** No data available.**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

ethylbenzene Overall evaluation: 2B. Possibly carcinogenic to humans.

**ACGIH: US.ACGIH Threshold Limit Values:**

ethylbenzene Hazard Designation: Group A3. Confirmed animal carcinogen with unknown relevance to humans. Hazard Designation: Ototoxicant

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogens present or none present in regulated quantities

**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  
ethylbenzene gene mutation test (OECD 476): negative  
Chromosomal aberration (OECD 473): negative**In vivo****Product:** No data available.**Components:**xylene, mixture of  
isomers dominant lethal test (OECD 478) Dermal (Mouse, Male): negative  
ethylbenzene dominant lethal test (OECD 478) Intraperitoneal (Mouse, Male): negative  
Micronucleus test (OECD 474) Oral (Mouse, Male): negative  
unscheduled DNA synthesis assay (OECD 486) Inhalation - vapor (Mouse,  
Female, Male): negative**Reproductive toxicity****Product:** No data available.**Specific Target Organ Toxicity - Single Exposure****Product:** No data available.**Specific Target Organ Toxicity - Repeated Exposure****Product:** No data available.**Aspiration Hazard****Product:** 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.

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

##### Components:

xylene, mixture of isomers	EC 50 (Algae ( <i>Pseudokirchneriella subcapitata</i> ), 72 h): 4.36 mg/l (OECD 201) growth rate EC 50 (Algae ( <i>Pseudokirchneriella subcapitata</i> ), 72 h): 2.2 mg/l (OECD 201) Biomass
ethylbenzene	EC 50 (Algae ( <i>Pseudokirchneriella subcapitata</i> ), 72 h): 5.4 mg/l (US-EPA-method) EC 50 ( <i>Skeletonema costatum</i> (marine diatom), 72 h): 4.9 mg/l (US-EPA-method) saltwater
isobutanol	EC 50 (Algae ( <i>Pseudokirchneriella subcapitata</i> ), 72 h): 632 mg/l (OECD 201) Literature EC 50 (Algae ( <i>Pseudokirchneriella subcapitata</i> ), 72 h): 1,799 mg/l (OECD 201)

##### Toxicity to microorganisms

**Product:** No data available.

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

##### Components:

xylene, mixture of isomers	NOEC (Algae ( <i>Pseudokirchneriella subcapitata</i> ), 72 h): 1.3 mg/l (OECD 201) growth rate NOEC (Algae ( <i>Pseudokirchneriella subcapitata</i> ), 72 h): 0.44 mg/l (OECD 201) Biomass
isobutanol	NOEC (Algae ( <i>Pseudokirchneriella subcapitata</i> ), 72 h): 53 mg/l (OECD 201) Literature

##### Toxicity to microorganisms

**Product:** No data available.

#### Persistence and Degradability

##### Biodegradation

**Product:** No data available.

##### BOD/COD Ratio

**Product:** No data available.

Product name: SILIKOPHEN® P 50/X

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**Bioaccumulative potential****Bioconcentration Factor (BCF)****Product:** No data available.**Partition Coefficient n-octanol / water (log Kow)****Product:** Log Kow: not measured**Mobility in soil:****Product** No data available.**Results of PBT and vPvB assessment:****Product** 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****Domestic regulation****49 CFR**UN/ID/NA number : UN 1866  
Proper shipping name : Resin solutionClass : 3  
Packing group : II  
Labels : 3  
ERG Code : 127  
Marine pollutant : no**International Regulations****IATA-DGR**UN/ID No. : UN 1866  
Proper shipping name : Resin solutionClass : 3  
Packing group : II  
Labels : 3  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353**IMDG-Code**UN number or ID number : UN 1866  
Proper shipping name : RESIN SOLUTION

Product name: SILIKOPHEN® P 50/X

Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no  
Remarks : Stowage category B

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

Not applicable for product as supplied.

**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****US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):****Chemical Identity**

BENZENE, DIMETHYL

ETHYLBENZENE

1-PROPANOL, 2-METHYL-

METHANOL

BENZENE, METHYL-

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Carcinogenicity, Specific target organ toxicity (single or repeated exposure), Aspiration Hazard, Hazards Not Otherwise Classified (HNOC)

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

**US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting****Chemical Identity****% by weight**

XYLENE (MIXED

1.0%

ISOMERS)

ETHYLBENZENE

0.1%

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

**Chemical Identity**

XYLENE (MIXED)  
 ETHYLBENZENE  
 TOLUENE

**US State Regulations**

**US. California Proposition 65**



**WARNING:** This product can expose you to chemicals including, ethylbenzene which is [are] known to the State of California to cause cancer.

This product can expose you to chemicals including, methanol, Toluene which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Inventory Status:**

US TSCA Inventory:	Included on Inventory.	
Canada DSL Inventory List:	Included on Inventory.	

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

**HMIS Hazard ID**

<b>Health</b>	*	2
<b>Flammability</b>		3
<b>Physical Hazards</b>		0
<b>PERSONAL PROTECTION</b>		K

K - Hood, Gloves, Protective Suit & Boots

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**Issue Date:** 03/13/2019

**Version #:** 2.1

**Further Information:** none

**Revision Information**

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

**Disclaimer:**

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