

# SAFETY DATA SHEET (EC 1907/2006)

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
Revision date: **27.05.2016**  
Issue date: **12.12.2013**  
replaces version: **1.5**  
Page: **1 / 12**



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

### 1.1. Product identifier

Trade name : SILIKOPHEN P 50/X  
Chemical Name : Solution of a phenylmethyl polysiloxane resin

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

Relevant applications identified : Industrial Use  
Applications which are not advised : None known.

### 1.3. Details of the supplier of the safety data sheet

Company : Evonik Resource Efficiency GmbH  
Goldschmidtstr. 100  
D-45127 Essen  
Telephone : +49 (0)201 173-01  
Telefax : +49 (0)201 173-3000  
E-mail : productsafety-cs@evonik.com

### 1.4. Emergency telephone number

+49 (0)2365 49-2232 (TUIS - Interpreting service available)  
+49 (0)2365 49-4423 (TUIS - Fax)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids	Category 2	H225
Acute toxicity (Inhalation)	Category 4	H332
Acute toxicity (Dermal)	Category 4	H312
Skin irritation	Category 2	H315
Eye irritation	Category 2	H319

### 2.2. Label elements

Constituent decisive for hazardous-substance labeling : Xylene; CAS-No.: 1330-20-7

Symbol(s) :



Signal word : Danger

hazard statement : H225 - Highly flammable liquid and vapour.  
H312 + H332 - Harmful in contact with skin or if inhaled  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.

Precautionary Statement : P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking.

**SAFETY DATA SHEET (EC 1907/2006)**

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
 Revision date: **27.05.2016**  
 Issue date: 12.12.2013  
 replaces version: 1.5  
 Page: **2 / 12**



(Prevention) P261 - Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P262 - Do not get in eyes, on skin, or on clothing.  
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

Precautionary Statement (Response) : P311 - Call a POISON CENTER or doctor/ physician.

Precautionary Statement (Storage) : P403 + P235 - Store in a well-ventilated place. Keep cool.

**2.3. Other hazards**

None known

**SECTION 3: Composition/information on ingredients**

Solution of a phenylmethyl polysiloxane resin

**3.1. Substances**

-

**3.2. Mixtures****Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008**

Chemical Name	CAS-No. EC-No. REACH-No.	Concentration	Classification
Xylene	1330-20-7 215-535-7 --- 01-2119488216-32	>= 25 % - < 50 %	Flam. Liq., 3 , H226 Acute Tox., 4 , H312, demal Acute Tox., 4 , H332, inhalation Skin Irrit., 2 , H315
Ethylbenzene	100-41-4 202-849-4  01-2119489370-35	>= 10 % - < 25 %	Flam. Liq., 2 , H225 Acute Tox., 4 , H332, inhalation
2-methylpropan-1-ol; iso-butanol	78-83-1 201-148-0  01-2119484609-23	>= 1 % - < 2,5 %	Flam. Liq., 3 , H226 STOT SE, 3 , H336 STOT SE, 3 , H335 Eye Dam., 1 , H318 Skin Irrit., 2 , H315
Methanol	67-56-1 200-659-6  01-2119433307-44	>= 0,1 % - < 0,5 %	Flam. Liq., 2 , H225 Acute Tox., 3 , H301, oral Acute Tox., 3 , H311, demal Acute Tox., 3 , H331, inhalation STOT SE, 1 , H370, oral STOT SE, 1 , H370, demal STOT SE, 1 , H370, inhalation

Texts of H phrases, see in Chapter 16

**SECTION 4: First aid measures****4.1. Description of first aid measures**

General advice : 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.  
Take for medical treatment

Eye contact : In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.

Ingestion : Thoroughly clean the mouth with water  
Call for medical advice, show the container or the label.

# SAFETY DATA SHEET (EC 1907/2006)

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
Revision date: **27.05.2016**  
Issue date: **12.12.2013**  
replaces version: **1.5**  
Page: **3 / 12**



## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms : Eye irritation  
Skin irritation

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

---

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.  
Unsuitable extinguishing media : Full 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  
- Formaldehyde  
Under certain conditions of combustion traces of other toxic substances cannot be excluded

### 5.3. Advice for firefighters

Do not inhale explosion and/or combustion gases  
Use self-contained breathing apparatus

---

## 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.

### 6.2. Environmental precautions

Do not allow to enter drains or waterways  
Do not discharge into the 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

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).  
Wear respiratory protection when spraying.  
Hygiene measures : Do not eat, drink or smoke when working.  
Wash hands before breaks and after work.  
Remove soiled or soaked clothing immediately.  
General protective measures : Avoid contact with eyes and skin  
Do not inhale gases/vapours/aerosols.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Prevention of fire and explosion

Information : Vapours may form explosive mixtures with air

**SAFETY DATA SHEET (EC 1907/2006)**

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
 Revision date: **27.05.2016**  
 Issue date: 12.12.2013  
 replaces version: 1.5  
 Page: **4 / 12**



Keep away from sources of ignition - no smoking  
 Take precautionary measures against electrostatic loading.  
 Cool endangered containers by water spray

**Storage**

Information : none

Further information on storage conditions : Keep container tightly closed in a cool, well-ventilated place

German storage class : 3

**7.3. Specific end use(s)**

No further recommendations.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limit(s)**

Ingredients	CAS-No.	Statutory basis/list (Update)	Value type (Form of exposure; Expressed as)	Value	Short-term	
Xylene	1330-20-7	EH40 WEL (12 2011)	---	100 ppm 441 mg/m <sup>3</sup>		
		EH40 WEL (12 2011)	---			
	Can be absorbed through the skin.					
		EH40 WEL (12 2011)	---	50 ppm 220 mg/m <sup>3</sup>		
		EU ELV (12 2009)	---	50 ppm 221 mg/m <sup>3</sup>		
	Indicative					
		EU ELV (12 2009)	---	100 ppm 442 mg/m <sup>3</sup>		
	Indicative					
		EU ELV (12 2009)	---			
	Can be absorbed through the skin.					
Ethylbenzene	100-41-4	EH40 WEL (12 2011)	---			
		Can be absorbed through the skin.				
		EH40 WEL (12 2011)	---	125 ppm 552 mg/m <sup>3</sup>		
		EH40 WEL (12 2011)	---	100 ppm 441 mg/m <sup>3</sup>		
		EU ELV (12 2009)	---			
	Can be absorbed through the skin.					
		EU ELV (12 2009)	---	100 ppm 442 mg/m <sup>3</sup>		
	Indicative					
		EU ELV (12 2009)	---	200 ppm 884 mg/m <sup>3</sup>		
	Indicative					
2-methylpropan-1-ol; iso-butanol	78-83-1	EH40 WEL (12 2011)	---	75 ppm 231 mg/m <sup>3</sup>		
		EH40 WEL (12 2011)	---	50 ppm 154 mg/m <sup>3</sup>		
Methanol	67-56-1	EH40 WEL (12 2011)	---			
		Can be absorbed through the skin.				
	EH40 WEL	---	250 ppm			

# SAFETY DATA SHEET (EC 1907/2006)

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
Revision date: **27.05.2016**  
Issue date: 12.12.2013  
replaces version: 1.5  
Page: **5 / 12**



	(12 2011)		333 mg/m <sup>3</sup>	
	EH40 WEL (12 2011)	---	200 ppm 266 mg/m <sup>3</sup>	
	EU ELV (12 2009)	---		
Can be absorbed through the skin.				
	EU ELV (12 2009)	---	200 ppm 260 mg/m <sup>3</sup>	
Indicative				

DNEL : No DNEL/DMEL values on file.

PNEC : No PNEC values on file.

## 8.2. Exposure controls

Eye protection : safety glasses  
Hand protection : Glove material: protective gloves made of fluorinated rubber (FKM, e.g. Viton)  
Break through time:  $\geq$  480 min  
Glove thickness:  $\geq$  0,4 mm  
  
Body Protection : protective clothing  
Respiratory protection : in case of formation of vapours/aerosols:  
Short term: filter apparatus, combination filter A-P2

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : liquid  
  
Form : liquid  
Colour : colourless  
Odour : of xylene  
Odour Threshold : not measured  
  
pH : not determined  
  
Melting point : not measured  
  
Boiling point : not measured  
  
Flash point : 21 °C  
Method: DIN 53213  
  
Evaporation rate : not measured  
  
Flammability : no data available  
  
Upper Explosion/Ignition Limit : not measured  
  
Lower explosion limit : not measured  
  
Vapour pressure : not measured

# SAFETY DATA SHEET (EC 1907/2006)

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
Revision date: **27.05.2016**  
Issue date: 12.12.2013  
replaces version: 1.5  
Page: **6 / 12**



Relative vapour density : not measured

Relative density : No data available

Solubility(ies) : not measured

Water solubility : insoluble

Partition coefficient: n-octanol/water : not measured

Autoignition temperature : not measured

Thermal decomposition : not measured

Viscosity, kinematic : No data available

Viscosity, dynamic : ca. 30 mPa·s  
(25 °C)  
Method: DIN 53019

Explosive properties : not measured

Oxidising properties : not oxidizing

Density : 1,02 g/cm<sup>3</sup>  
(25 °C)  
Method: DIN 51757

## 9.2. Other information

Metal corrosion : Not corrosive to metals.

Ignition temperature : 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

Reactions with oxidizing agents.

### 10.4. Conditions to avoid

Unknown

### 10.5. Incompatible materials

Unknown

### 10.6. Hazardous decomposition products

Possibility of splitting-off of small amounts of formaldehyde.  
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.

# SAFETY DATA SHEET (EC 1907/2006)

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
Revision date: **27.05.2016**  
Issue date: **12.12.2013**  
replaces version: **1.5**  
Page: **7 / 12**



## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Acute toxicity estimate  
Dose: > 2.000 mg/kg  
Method: Calculation method

Acute toxicity (inhalation) : Acute toxicity estimate  
Test atmosphere: vapour  
Dose: 12,6 mg/l  
Method: Calculation method

Acute toxicity (dermal) : Acute toxicity estimate  
Dose: 1.483 mg/kg  
Method: Calculation method

Irritation/corrosion of the skin : no data available

Serious eye damage/ eye irritation : no data available

Respiratory/skin sensitization : no data available

Repeated dose toxicity : no data available

### CMR assessment

Carcinogenicity : No data available

Mutagenicity : no data available

Teratogenicity : No data available

Toxicity to reproduction : No data available

Specific Target Organ Toxicity - Single exposure : no data available

Specific Target Organ Toxicity - Repeated exposure : no data available

Aspiration hazard : No aspiration toxicity classification

Other information : Harmful by inhalation and in contact with skin.  
Irritant to skin  
Due to the composition of the product it cannot be excluded:  
Irritant to eyes.  
REGULATION (EC) No 1272/2008  
Harmful in contact with skin.  
Causes skin irritation.  
Causes serious eye irritation.  
Harmful if inhaled.

# SAFETY DATA SHEET (EC 1907/2006)

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
Revision date: **27.05.2016**  
Issue date: **12.12.2013**  
replaces version: **1.5**  
Page: **8 / 12**



## SECTION 12: Ecological information

### Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

### 12.1. Toxicity

Aquatic toxicity, fish : No data available

Aquatic toxicity, in vertebrates : No data available

Aquatic toxicity, algae / aquatic plants : No data available

Toxicity in microorganisms : No data available

chronic toxicity in fish : No data available

Chronic toxicity in aquatic Invertebrates : No data available

Toxicity in organisms which live in the soil : No data available

Toxicity in terrestrial plants : No data available

Toxicity to Above-Ground Organisms : No data available

### 12.2. Persistence and degradability

Photodegradation : No data available

Biological degradability : No data available

Physico-chemical removability : No data available

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

relation of BOD/COD : No data available

Dissolved organic carbon (DOC) : No data available

Adsorbed organic bound halogens (AOX) : No data available

Distribution among environmental compartments : No data available



# SAFETY DATA SHEET (EC 1907/2006)

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
Revision date: **27.05.2016**  
Issue date: **12.12.2013**  
replaces version: **1.5**  
Page: **9 / 12**



## 12.3. Bioaccumulative potential

Bioaccumulation : No data available

## 12.4. Mobility in soil

Environmental distribution : No data available

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment : No data available

## 12.6. Other adverse effects

General Information : The product is considered to be a water pollutant (German law).  
Do not allow to enter soil, waterways or waste water canal.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product : 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

### Transport on land (ADR/RID/GGVSEB)

14.1. UN number: UN 1866  
14.2. UN proper shipping name: RESIN SOLUTION  
14.3. Transport hazard class(es): 3  
14.4. Packing group: II  
14.5. Environmental hazards: --  
14.6. Special precautions for user: Yes  
ADR: Tunnel Restriction Code: (D/E)  
ADR: Special Provision 640D  
RID: Special Provision 640D

### Inland waterway transport (ADN/GGVSEB (Germany))

14.1. UN number: UN 1866  
14.2. UN proper shipping name: RESIN SOLUTION  
14.3. Transport hazard class(es): 3  
14.4. Packing group: II  
14.5. Environmental hazards: --  
14.6. Special precautions for user: No

### Air transport ICAO-TI/IATA-DGR

14.1. UN number: UN 1866  
14.2. UN proper shipping name: Resin solution  
14.3. Transport hazard class(es): 3  
14.4. Packing group: II  
14.5. Environmental hazards: --  
14.6. Special precautions for user: No

### Sea transport IMDG-Code/GGVSee (Germany)

14.1. UN number: UN 1866

# SAFETY DATA SHEET (EC 1907/2006)

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
Revision date: **27.05.2016**  
Issue date: 12.12.2013  
replaces version: 1.5  
Page: **10 / 12**



- 14.2. UN proper shipping name: RESIN SOLUTION  
14.3. Transport hazard class(es): 3  
14.4. Packing group: II  
14.5. Environmental hazards (Marine pollutant): --  
14.6. Special precautions for user: Yes  
EmS: F-E,S-E  
Stowage category B
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:  
for transport approval see regulatory information

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National legislation

Technical instructions on Air Quality : 5.2.5 (no class)

Major Accident Hazard Legislation : 6

Water contaminating class (Germany) : water endangering  
Classification acc. to German law

Risk classification according to BetrSichV (Germany) : Highly flammable liquid and vapour.

Other regulations : Special local regulations must be adhered if using organic solvents  
Special local regulations must be adhered to when using products containing irritating or corrosive substances.  
BG Info Sheet M 050 "Activities Involving Hazardous Substances"  
Precautions to be observed for storage of flammable / readily flammable products:  
TRGS 510 "Storage of Hazardous Substances in Movable Containers".

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

#### List of references

Other information : Comply with national laws regulating employee instruction.

#### Classification and applied procedure to derive the classification of mixtures according to EU Regulation (EC) No. 1272/2008 (CLP)

Classification	Classification procedure
Flam. Liq., 2 , H225	On basis of test data.
Acute Tox., 4 , H332	Calculation method
Acute Tox., 4 , H312	Calculation method
Skin Irrit., 2 , H315	Calculation method
Eye Irrit., 2 , H319	Calculation method

#### Relevant H phrases from chapter 3

H225 : Highly flammable liquid and vapour.  
H226 : Flammable liquid and vapour.  
H301 : Toxic if swallowed.  
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.

# SAFETY DATA SHEET (EC 1907/2006)

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
Revision date: **27.05.2016**  
Issue date: 12.12.2013  
replaces version: 1.5  
Page: **11 / 12**



H331 : Toxic if inhaled.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H370 : Causes damage to organs in contact with skin.

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

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.

# SAFETY DATA SHEET (EC 1907/2006)

SILIKOPHEN P 50/X

Version: **1.6 / GB** VA-No.  
Revision date: **27.05.2016**  
Issue date: 12.12.2013  
replaces version: 1.5  
Page: **12 / 12**



## Legend

<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
<b>ADNR</b>	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BetrSichV</b>	German Ordinance on Industrial Safety and Health
<b>c.c.</b>	closed cup
<b>CAS</b>	Chemical Abstract Services
<b>CESIO</b>	European Committee of Organic Surfactants and their Intermediates
<b>ChemG</b>	German Chemicals Act
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>EC50</b>	half maximal effective concentration
<b>GefStoffV</b>	German Ordinance on Hazardous Substances
<b>GGVSEB</b>	German ordinance for road, rail and inland waterway transportation of dangerous goods
<b>GGVSee</b>	German ordinance for sea transportation of dangerous goods
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	International Maritime Dangerous Goods
<b>ISO</b>	International Organization For Standardization
<b>LOAEL</b>	Lowest observed adverse effect level
<b>LOEL</b>	Lowest observed effect level
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>REACH</b>	REACH registration
<b>RID</b>	Convention concerning International Carriage by Rail
<b>STOT</b>	Specific Target Organ Toxicity
<b>SVHC</b>	Substances of Very High Concern
<b>TA</b>	Technical Instructions
<b>TPR</b>	Third Party Representative (Art. 4)
<b>TRGS</b>	Technical Rules for Hazardous Substances
<b>VCI</b>	German chemical industry association
<b>vPvB</b>	very persistent, very bioaccumulative
<b>VOC</b>	volatile organic compounds
<b>VwVwS</b>	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
<b>WGK</b>	Water Hazard Class
<b>WHO</b>	World Health Organization