

## SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

#### 1. Identification

**Product identifier:** SILIKOPHEN® P 80/X **Chemical name:** Phenyl-methyl-polysiloxane-resin-solution

Other means of identification None.

#### **Recommended restrictions**

Recommended use: Industrial use Restrictions on use: None known.

#### Manufacturer/Importer/Distributor Information

Nutrition & Care 7801 Whitepine Road Richmond, VA 23237 USA	
--	--

Telephone	: +1 804 727 0700

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 3
Health Hazards	
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Carcinogenicity	Category 2
Toxic to reproduction	Category 2
Specific Target Organ Toxicity - Repeated Exposure	Category 2

#### **Environmental Hazards**



Acute hazards to the aquatic Category 3 environment Label Elements **Hazard Symbol:** Signal Word: Danger Hazard Statement: Flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion. 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. Use personal protective equipment as required. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse **Response:** 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/doctor. 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 cool. 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 Static accumulating flammable liquid can become electrostatically charged classified (HNOC): even in bonded and grounded equipment.



#### 3. Composition/information on ingredients

#### Chemical name:

Phenyl-methyl-polysiloxane-resin-solution

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
xylene, mixture of isomers		1330-20-7	10 - <20%
isobutanol		78-83-1	3 - <5%
ethylbenzene		100-41-4	1 - <5%
propylidynetrimethanol		77-99-6	0.1 - <1%

\* 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 first aid measures

General information:	Remove soiled or soaked clothing immediately	
Inhalation:	fresh air supply, consult a doctor if feeling unwell.	
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.	



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 - Formaldehyde Under certain conditions of combustion traces of other toxic substances cannot be excluded
Special protective equipment and precautio	ns 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. Self- contained breathing apparatus.
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:	No data available.
Local/Total ventilation:	No data available.
Safe handling advice:	Avoid contact with 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.Do not store together with oxidizing agents.
Safe packaging materials:	No data available.

## 8. Exposure controls/personal protection

#### Control Parameters Occupational Exposure Limits



Chemical Identity	Туре	Exposure Li	mit Values	Source
xylene, mixture of isomers	STEL	150 ppm	655 mg/m3	NIOSH (2016)
	REL	100 ppm	435 mg/m3	NIOSH (2016)
	PEL	100 ppm	435 mg/m3	OSHA Z1 (03 2016)
	AN ESL		180 µg/m3	TX ESL (06 2018)
	ST ESL		510 ppb	TX ESL (06 2018)
	ST ESL		2,200	TX ESL (06 2018)
			µg/m3	
	AN ESL		41 ppb	TX ESL (06 2018)
	TWA	20 ppm		ACGIH (01 2022)
isobutanol	TWA	50 ppm		ACGIH (03 2016)
	REL	50 ppm	150 mg/m3	NIOSH (2010)
	PEL	100 ppm	300 mg/m3	OSHA Z1 (03 2016)
ethylbenzene	TWA	20 ppm		ACGIH (03 2016)
	REL	100 ppm	435 mg/m3	NIOSH (2010)
	STEL	125 ppm	545 mg/m3	NIOSH (2010)
	PEL	100 ppm	435 mg/m3	OSHA Z1 (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)
methanol	methanol Sampling time: End of shift.	15 mg/l (Urine)	ACGIH BEI (03 2016)
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:	Tightly fitting safety goggles
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:	not measured
Flammability:	not measured
Upper/lower limit on flammability or exp	blosive limits
Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	86 °F/30 °C Method: DIN EN ISO 2719
Auto-ignition temperature:	not measured
Decomposition Temperature:	not measured
pH:	Not applicable, substance/mixture is non-soluble (in water)
Viscosity	
Dynamic viscosity:	Approximate 3,000 mPa.s at 77 °F/25 °C Method: DIN 53019
Kinematic viscosity:	Approximate 2679 mm2/s at 77 °F/25 °C, Method: 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:	1.12 g/cm3 at 77 °F/25 °C Method: DIN 51757
Bulk density:	No data available.
Relative vapor density:	not measured
Other information	

Other information



Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Self-ignition:	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:	Oxidizing agents.
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.

## 11. Toxicological information

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, 2,204 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 In Product:	r <b>itation</b> No data available.

#### **Respiratory or Skin Sensitization**



Product:	No data available.	
Carcinogenicity Product:	No data available.	
IARC Monographs on the Ev	valuation of Carcinogenic Risks to Humans:	
ethylbenzene	Overall evaluation: 2B. Possibly carcinogenic to humans.	
ACGIH: US.ACGIH Threshol	d Limit Values:	
ethylbenzene	Hazard Designation: Group A3. Confirmed animal carcinogen with unknown relevance to humans. Hazard Designation: Ototoxicant	
	ogram (NTP) Report on Carcinogens: one present in regulated quantities	
	Ilated Substances (29 CFR 1910.1001-1053), as amended: one present in regulated quantities	
Germ Cell Mutagenicity No data available.		
In vitro Product: Components:	No data available.	
xylene, mixture of isomers	Chromosomal aberration: , negative sister chromatid exchange assay: , negative	
ethylbenzene	gene mutation test, OECD 476: , negative Chromosomal aberration, OECD 473: , negative	
propylidynetrimethanol	Ames test, OECD 471: , negative Chromosomal aberration, OECD 473: , negative gene mutation test, OECD 476: , negative	
In vivo Product: Components: xylene, mixture of isomers	No data available. dominant lethal test, OECD 478, Dermal, Mouse, Male, negative dominant lethal test, OECD 478, Intraperitoneal, Mouse, Male, negative	•
ethylbenzene	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 Toxic Product:	<b>ity - Single Exposure</b> No data available.	
Specific Target Organ Toxic Product:	<b>ity - Repeated Exposure</b> No data available.	
Aspiration Hazard Product:	Not classified	Q



#### Information on health hazards

Other	hazards
Prod	luct:

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:	
Toxicity to microorganisms Product:	No data available.
Chronic hazards to the aqua	tic environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to microorganisms Product:	No data available.
Persistence and Degradability	/
Biodegradation	
Product:	No data available.
BOD/COD Ratio	
Product:	No data available.
Bioaccumulative potential	
Bioconcentration Factor (BC Product:	<b>CF)</b> No data available.
Partition Coefficient n-octan Product:	ol / water (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. Based on expert judgement and on experimental data within an analogue approach, the maximum estimated aqueous concentration of typical impurities of siloxane polymers, migrating into water is below their established no-effect threshold value for aquatic organisms.	
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**

<b>49 CFR</b> UN/ID/NA number Proper shipping name		UN 1866 Resin solution
Class Packing group Labels ERG Code Marine pollutant	:	3 III 3 127 no
International Regulations		
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	:	UN 1866 Resin solution 3 III 3 366 355
IMDG-Code UN number or ID number Proper shipping name		UN 1866 RESIN SOLUTION
Class Packing group Labels EmS Code Marine pollutant Remarks	:	3 III 3 F-E, <u>S-E</u> no Stowage category A

### 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 guantities.

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 1910.1001-1053), as amended None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

#### **Chemical Identity**

BENZENE, DIMETHYL 1-PROPANOL, 2-METHYL-ETHYLBENZENE ETHYLENE GLYCOL METHANOL 1-BUTANOL BENZENE, METHYL-BENZENE,1-METHYLETHYL-

#### 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, Reproductive toxicity, Specific target organ toxicity (single or repeated exposure), 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	<u>% by weight</u>
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, cumene which is [are] known to the State of California to cause cancer.

For more information go to 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**

Health	*	3
Flammability		3
Physical Hazards		0
PERSONAL PROTECTION		X

Consult supervisor for special handling instructions for these substances.

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

 Version #:
 3.0

 Generation date:
 11/08/2023

Date of first report version: 05/13/2019

#### Abbreviations and acronyms:

 ······································	
ACGIH:	US. ACGIH Threshold Limit Values, as amended
ACGIH BEI:	US. ACGIH. BEIs. Biological Exposure Indices, as amended
NIOSH/GUIDE:	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
OSHA_TRANS:	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000),
	as amended
TX ESL:	US. Texas. Effects Screening Levels (Texas Commission on
	Environmental Quality), as amended
ACGIH / TWA:	Time Weighted Average (TWA):
NIOSH/GUIDE / REL:	Recommended exposure limit (REL):
NIOSH/GUIDE / STEL:	Short Term Exposure Limit (STEL):
OSHA_TRANS / PEL:	Permissible exposure limit:
TX ESL / ST ESL:	Short-Term ESL:
TX ESL / AN ESL:	Annual ESL:

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx -Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide: GHS - Globally Harmonized System: GLP - Good Laboratory Practice: HMIS -Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Verv Persistent and Verv Bioaccumulative

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 any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.