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# 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

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 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 - Category 2

Repeated Exposure

## **Environmental Hazards**



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Acute hazards to the aquatic environment

Category 3

#### **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.

Response: 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 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 classified (HNOC):

Static accumulating flammable liquid can become electrostatically charged

even in bonded and grounded equipment.



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## 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%

<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 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.



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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 precautions 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** 

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Chemical Identity	Туре	Exposure Lin	nit 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



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**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:liquidForm:liquidColor: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 explosive 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:
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



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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 Irritation

**Product:** No data available.

Respiratory or Skin Sensitization



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**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 1910.1001-1053), as amended:

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity** 

No data available.

In vitro

**Product:** No data available.

Components:

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:** 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

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 Toxicity - Single Exposure
Product:
No data available.

110 data available.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

US

**Product:** Not classified

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#### 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:** 

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 microorganisms

**Product:** No data available.

Persistence and Degradability

**Biodegradation** 

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Partition Coefficient n-octanol / water (log Kow)

**Product:** , not measured

Mobility in soil:

**Product:** No data available.

Results of PBT and vPvB assessment:



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**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**

**49 CFR** 

UN/ID/NA number : UN 1866
Proper shipping name : Resin solution

Class : 3
Packing group : III
Labels : 3
ERG Code : 127
Marine pollutant : no

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.



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#### 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 1910.1001-1053), 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** % by weight 1.0%

XYLENE (MIXED

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** 



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#### **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	ON	Х

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 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



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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 - Very Persistent and Very Bioaccumulative

Further Information: No data available.

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

replaces all previous versions.

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