

Revision Date: 06/18/2026 Print Date: 06/29/2026

Safety Data Sheet : Sileto Polux Binder

According to OSHA 1910.1200 Hazard Communication Standard

Product Name	: Sileto Polux Binder
Use	: Industrial/Professional Use Only
Emergency Contact	: CHEMTREC US (24h): +1-800-424-9300 CHEMTREC WORLD (24h): +1-703-527-3887

Section 1: Identification

Product Identifier	: Sileto Polux Binder
Recommended Use	: Industrial applications
Restrictions on Use	: For industrial use only

Section 2: Hazard(s) Identification

Classification (GHS)

: Flammable liquid, Category 3
: Acute toxicity: Inhalation, Category 4
: Skin corrosion/irritation, Category 2
: Serious Eye damage/irritation,
: Category 2A
: Carcinogenicity -Category 2



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Hazard pictograms



Signal Word : Warning

Hazard Statements

: Flammable liquid and vapor
: Harmful if inhaled.
: Causes serious eye irritation
: Causes skin irritation.
: Suspected of causing cancer

Precautionary Statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames, and hot



surfaces. No smoking. Use explosion-proof electrical, ventilating, lighting, and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep the container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

Response : IF exposed or concerned- Get medical attention.

: IF INHALED-Remove victims to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

: IF ON SKIN (or hair)-Take off immediately all contaminated clothing. Rinse skin with water or shower.

: IF ON SKIN-Wash with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs; get medical attention.

: 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 attention.

Storage : Store containers in a safe place. Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and containers in accordance with all local, regional, national and international regulations.

Hazards Not Otherwise Classified : None known.



Section 3: Composition/Information on Ingredients

Substance/Mixture : Mixture

Other Means of Identification : Unsaturated Polyester Resin

CAS Number/other Identifiers
CAS Number : Not applicable.
Product Code : [Insert here]

Ingredient Name	%	CAS number
Styrene	40.0 – 50.0	100-42-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 4: First-Aid Measures

Description of Necessary First Aid Measures

Eye Contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victims to fresh air and keep at rest in a comfortable position for breathing purposes. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not

breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If the patient is unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reusing. Clean shoes thoroughly before reusing.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victims to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.



Never give anything by mouth to an unconscious person. If unconscious, place the person in a recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most Important Symptoms/Effects, Acute and Delayed

Potential Acute Health Effects

Eye Contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled.
Skin Contact	: Adverse symptoms may include the following: irritation, redness
Ingestion	: No specific data.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary

Notes to Physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific Treatments	: No specific treatment.
Protection of First Aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous

to the person providing aid to give mouth-to-mouth resuscitation.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media	: Foam dry chemical, CO_2, water spray
Unsuitable Extinguishing Media	: Do not use water jet
Specific Hazards	: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur, and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazards.
Hazardous Thermal Decomposition Products	: Decomposition products may include the following materials -carbon dioxide -carbon monoxide -halogenated compounds

Section 6: Accidental Release Measures

: Evacuate area and ventilate
: Avoid contact with skin and eyes
: Prevent product from entering drains or waterways
: Use inert absorbent materials to contain spill
: Dispose of in accordance with local regulations



Section 7: Handling and Storage

: Handle in well-ventilated areas
: Keep away from heat,
: Sparks, and open flames
: Store in original tightly closed containers in a cool dry area
: Keep away from incompatible materials (strong oxidizers, acids, bases)

Section 8: Exposure Controls / Personal Protection

Control Parameters and Occupational Exposure Limits

Ingredient Name	Exposure Limits
Styrene	**ACGIH TLV (United States, 4/2014).** TWA: 20 ppm 8 hours. TWA: 85 mg/m^3 8 hours. STEL: 40 ppm, 15 minutes. STEL: 170 mg/m^3 15 minutes. **OSHA PEL 1989 (United States, 3/1989).** TWA: 50 ppm, 8 hours. TWA: 215 mg/m^3 8 hours. STEL: 100 ppm, 15 minutes. STEL: 425 mg/m^3 15 minutes. **OSHA PEL Z2 (United States, 2/2013).** TWA: 100 ppm 8 hours. CEIL: 200 ppm AMP: 600 ppm 5 minutes. **NIOSH REL (United States, 10/2013).** TWA: 50 ppm 10 hours. TWA: 215 mg/m^3 10 hours. STEL: 100 ppm, 15 minutes. STEL: 425 mg/m^3 15 minutes.



Appropriate Engineering Controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor, or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental Exposure Controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual Protection Measures

Hygiene Measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



Eye/Face Protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dust. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin Protection

Hand Protection : Chemical-resistant, impervious gloves complying with an approved standard should be always worn when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection

from static discharges, clothing should include anti-static overalls, boots, and gloves.

Other Skin Protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator.

Section 9: Physical and Chemical Properties

Appearance

Physical State	: Liquid
Color	: Various
Odor	: Characteristic Aromatic
Odor threshold	: 0.1 ppm
pH	: Not applicable.
Melting point	: Not available.
Boiling Point	: Not available.
Flash point	: Not available.
Burning time	: Not available.
Burning rate	: Not available.



Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n – octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Not available.

Section 10: Stability and Reactivity

Hazardous Decomposition Products	: No specific test data related to reactivity available for this product or its ingredients
Chemical Stability	: The product is stable.
Possibility of Hazardous Reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use.
Conditions to Avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible Materials	: Reactive or incompatible with oxidizing materials. : Reactive or incompatible acids and alkalis. Keep away from oxidizing agents.





Incompatible with alkali metals.
Incompatible with some strong acids.

Hazardous Decomposition Products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological Information

Product/Ingredient name	Result	Species	Dose	Exposure
Styrene	LC50 Inhalation Gas	Rat	2770 ppm	4 hours
	LC50 Inhalation Vapor	Rat	11800 mg/m³	4 Hours
	LD50 Oral	Rat	2650 mg/kg	-

Product/Ingredient name	Result	Species	Score	Exposure	Observation
Styrene	Eyes - Mild irritant	Human	-	50 ppm	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	100 Percent	-

Sensitization

Not available.



Mutagenicity

Not available.

Carcinogenicity

Not available.

Conclusion/Summary : Styrene manufacturers vary on their determination that the GHS hazard classification criteria for carcinogenicity have been met.

: Styrene is listed by IARC as a possible carcinogen to humans (Group 2B) based on "limited evidence" in humans, "limited evidence" in animals and "other relevant data". The United States NTP listed Styrene as reasonably anticipated to be a human carcinogen based on "limited evidence" from studies in humans, "sufficient evidence" from studies in experimental animals, and supporting data on mechanisms of carcinogenesis. The significance of these results for humans has not been established through risk assessment.

Product/Ingredient name	OSHA	IARC	NTP
Styrene	-	2B	Reasonably anticipated to be a human carcinogen.



Reproductive Toxicity

Not available

Teratogenicity

Not available.

Specific Target Organ Toxicity (Repeated Exposure)

Not available.

Aspiration Hazard

Not available.

Information on the Likely Routes of Exposure : Not available.

Potential Acute Health Effects

Eye Contact : Causes serious eye irritation.

Inhalation : Harmful if inhaled.

Skin Contact : Causes skin irritation.

Ingestion : Irritation to the mouth, throat and stomach.

Symptoms Related to the Physical, Chemical and Toxicological Characteristic

Eye Contact : Adverse symptoms may include the following:
-pain or irritation
-watering
-redness

Inhalation : No specific data

Skin Contact : Adverse symptoms may include the following:



- irritation
- redness

Ingestion : No specific data

Delayed and Immediate Effects and also Chronic Effects from Short- and Long-Term Exposure

Short Term Exposure

Potential Immediate Effects : Not available.
Potential Delayed Effects : Not available.
Potential Delayed Effects : Not available.

Long Term Exposure

Potential Immediate Effects : Not available.
Potential Delayed Effects : Not available.

Potential Chronic Health Effects : Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : Suspected of causing cancer. The risk of cancer depends on the duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental Effects : No known significant effects or critical hazards.

Fertility Effects : No known significant effects or critical hazards.



Numerical Measures of Toxicity

Acute Toxicity Estimates

Route	ATE value
Oral	2722.6 mg/kg
Inhalation (gases)	2845.8 ppm
Inhalation (vapors)	12.12 mg/l

Section 12: Ecological Information

Toxicity

Product/Ingredient Name	Result	Species	Exposure
Styrene	Acute EC50 1400 µg/l Fresh water	Algae – Pseudokirchneriella Subcapitata	72 hours
	Acute EC50 720 µg/l Fresh water	Algae – Pseudokirchneriella Subcapitata	96 hours
	Acute EC50 4700 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 52000 µg/l	Marine water Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 4020 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 63 µg/l Fresh water	Algae – Pseudokirchneriella Subcapitata	96 hours



Persistence and Degradability : Not available.

Bioaccumulative Potential

Product/ingredient name	Log P_{ow}	BCF	Potential
Styrene	0.35	13.49	low

Mobility in Soil

Soil/Water Partition Coefficient (K_{oc}) : Not available.

Other Adverse Effects : No known significant effects or critical hazards.

Section 13: Disposal Considerations

Disposal Methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should always comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe

way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14: Transport Information

	Dot Classification	**Mexico Classification**	**IMDG**	**IATA**
UN Number	UN1866	UN1866	UN1866	UN1866
UN Proper Shipping Name	RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)	RESIN SOLUTION (Styrene)
Transport Hazard Class(es)	3 	3 	3 	 3
Packing Group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	No.
Additional Information	**Reportable Quantity** 2072.6 lbs / 940.95 kg [233.	-	-	-



	4 gal / 883.52 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.			

Special Precautions for User : **Transport with user's premises**: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code : Not available

Section 15: Regulatory Information

: This product meets the requirements for hazardous materials classification

: Contains substances regulated under various environmental and workplace safety laws



: Exact chemical identities are withheld as confidential proprietary blend

U.S Federal Regulations : **TSCA 8(a) PAIR**: Not determined

: **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

: **Clean Water Act 307**: Not determined

: **Clean Water Act 311**: Not determined

Clean Air Act Section 112 (b) Hazardous Air Pollutants : Listed

Clean Air Act Section 601 Class I Substance : Not Listed

Sara 311/312

Classification : Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

SARA 313

	Product name	CAS number	%
Form R- Reporting Requirements	Styrene	100-42-5	40-50
Supplier Notification	Styrene	100-42-5	40-50

State Regulations

Massachusetts : The following components are listed:
STYRENE MONOMER

New York : The following components are listed:
STYRENE MONOMER



Pennsylvania	: The following components are listed: STYRENE MONOMER

California Prop 65.

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

International regulations

International Lists	: **Australia inventory**: Not determined. **China inventory**: Not determined. **Japan inventory**: Not determined. **Korea inventory**: Not determined. **Malaysia inventory**: Not determined. **New Zealand**: Not determined. **Philippines inventory**: Not determined. **Taiwan inventory**: Not determined. **Canada inventory**: Not determined.

Section 16: Other Information

Health	*	2
Flammability		3
Physical hazards		1

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The customer is responsible for determining the PPE code for this material.

The information in this SDS is provided for safety purposes only

Follow recommended handling, storage, and disposal procedures

Users must comply with applicable local regulations

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