

SYSTEMTHREE

Safety Data Sheets (SDS)

Updated: June 21, 2023

This file contains the Safety Data Sheet for Satin Varnish.

If this is a medical emergency, call 911 or your local poison control center. Seek medical attention.

For technical assistance, call System Three Technical Support at 253-333-8118 option 2.

These SDS are provided pursuant to 29 CFR 1910.1200(g).

1. Product Identification

Product name	Spar Urethane Varnish Satin	
SDS Number	1855S00	
Product type	Oil-modified urethane polymer.	
Recommended use of the chemical and restrictions on use	Directed at, but not limited to, the finishing and coating of wood.	
Restrictions	None known.	
Manufacturer/Supplier information		
Company name	SYSTEM THREE RESINS, INC.	
Address	8517 Commerce Place Dr NE Lacey, WA 98516 United States	
Telephone	1-253-333-8118	
Website	www.systemthree.com	
Email	support@systemthree.com	
Emergency Contact	CHEMTEL (U.S. and CANADA)	1-800-704-9215
	CHEMTEL (Outside the U.S.) – Call Collect accepted	+1-360-256-7365

2. Hazard(s) Identification

Classification of substance or mixture/Signal Word	WARNING! Flammable liquid – Category 3 Serious Eye Damage/Irritation – Category 2B
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GHS Label Elements
Hazard Pictograms



Hazard Statements/Classification of substance or mixture	H226 Flammable liquid and vapor. H320 Causes eye irritation.
Precautionary statements	
<u>Precautionary Statements</u>	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/Bond container and receiving equipment. P241 Use ventilating equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash hands thoroughly after handling. P280 Wear protective gloves/eye protection/face protection.
Prevention	
Response	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

	P337+P313	If eye irritation persists: Get medical advice/attention.
Storage	P403+P235	Store in a well-ventilated place. Keep cool.
Disposal	P501	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified (HNOC)	None Available.	

3. Composition/Information On Ingredients

Chemical Name	CAS Number	Content (%)
Mineral Spirits	8052-41-3	20 – 30%
Solvent Naphtha (Petroleum), Light aromatic	64742-95-6	5 – 10%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

4. First-Aid Measures

Skin contact	Remove contaminated clothing and shoes and wipe excess off skin. Flush skin with water for at least 15 minutes. Follow by washing in soap and water. If irritation occurs, seek medical attention. Do not reuse clothing until cleaned.
Eye contact	Flush with water for 15 minutes holding eye lids open. Get medical attention, if irritation occurs or persists.
Ingestion	Do not give anything if victim is unconscious or very drowsy. DO NOT INDUCE VOMITING. Seek medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.
Inhalation	Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptoms as they appear.
Specific treatments	No specific treatments.

5. Fire-Fighting Measures

Suitable extinguishing media	Foam, carbon dioxide, dry chemical, water fog.
Unsuitable extinguishing media	None known
Specific hazards arising from the chemical	Carbon monoxide and unidentified organic compounds may be formed during combustion.
Hazardous decomposition products	Carbon monoxide
Special protective actions for fire-fighters	When fighting chemical fires wear full bunker gear, including a positive pressure NIOSH approved self-contained breathing apparatus (SCBA). Water spray may be used to cool fire-exposed containers. When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.
Special protective equipment for fire-fighters	Full fire suit and self-contained breathing apparatus.
Further information	None.

6. Accidental Release Measures

Personal precautions	Wear proper personal protective equipment (PPE). Avoid direct contact with material. Proper PPE includes: disposable gloves, eye protection and skin protection.
Emergency procedures	If material is spilled, avoid contact with material. Persons not wearing appropriate protective equipment should leave the area of the spill until cleanup is complete. Stop spill at source, dike area to prevent spreading, pump liquid to salvage tank or drum. Remaining liquid may be taken up on clay, diatomaceous earth, sawdust, or other absorbent, and shoveled into disposal containers.
Methods and materials for containment/cleanup	Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency. Take up the spilled liquid with sand, earth, or other noncombustible absorbent material and place in a plastic container where applicable.
Environmental precautions	None known.

7. Handling and Storage

Precautions for safe handling	Read carefully all cautions and directions on product label before use.
Precautions/Recommendations for safe/proper storage	Keep away from heat, sparks, and open flame, and out of the reach of pets or children. Surfaces that are hot may ignite even liquid products in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Store in cool, dry place.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

List	Components	CAS No.	Type	Value
OSHA Exposure Limits	Mineral Spirits	8052-41-3	TWA TWA	2900 mg/m ³ 8 hrs 500 ppm 8 hrs
ACGIH Exposure Limits	Mineral Spirits	8052-41-3	TWA TWA	525 mg/m ³ 8 hrs 100 ppm 8 hrs
OSHA Exposure Limits	Solvent Naphtha (Petroleum), Light Aromatic	64742-95-6		Not Established
ACGIH Exposure Limits	Solvent Naphtha (Petroleum), Light Aromatic	64742-95-6		Not Established

Appropriate engineering controls	Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below TLV. Ventilation equipment must be explosion proof.
Environmental exposure controls	Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

Individual protection measures/Personal protective equipment**Eye/face protection**

Chemical splash goggles and face shield in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of safety glasses. (Consult your industrial hygienist).

Hand protection

Wear chemical resistant gloves such as: Poly Vinyl Alcohol (PVA), Viton, or Teflon gloves or consult your safety equipment supplier.

Skin protection

Depending on the conditions of use, protective gloves, apron, boots, head and face protection should be worn. The equipment must be cleaned thoroughly after each use.

Respiratory protection

Use a NIOSH-approved respiratory device or air-supplied respirator if exposure exceeds any occupational limits. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

Special instructions for protection and hygiene

Use good personal hygiene when handling this product. Wash hands after use before eating, drinking, smoking or using the toilet. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. If clothing is contaminated, discard or launder.

9. Physical and Chemical Properties

Chemical family	Urethane
Appearance	Translucent liquid
Physical State	Liquid
Form	Satin liquid
Color	Amber
Odor	Pungent odor
Density (Specific Gravity)	0.913
Viscosity	Data not available
pH	Data not available
Melting point/freezing point	Data not available
Initial boiling point and boiling range	157 to 196°C
Flash point	38°C (100°F)
Evaporation rate	Slower than ether
Flammability (solid, gas)	Data not available
Upper/lower flammability limit (by volume)	LEL: 1.00 UEL: 6.00
Upper flammability limit (by volume)	12.8
Lower flammability limit (by volume)	0.01
Material VOC	440-450 g/l (3.75 lb/gal)
Vapor density	Heavier than air
Relative density	Data not available
Solubility in water	Not determined
Partition coefficient: n-octanol/water	Data not available

Auto-ignition temperature	Data not available
Decomposition temperature	Data not available

10. Stability and Reactivity

Reactivity	None
Chemical Stability	Stable
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Avoid extreme heat, sources of ignition.
Incompatible materials	Strong oxidizing agents, Lewis and mineral acids.
Hazardous decomposition products	None known.
Other hazards	None known.

11. Toxicological Information

Acute Health Hazard No comprehensive data (ingestion, inhalation, dermal) on mixture (product).

Component	Result	Species	Exposure
Mineral Spirits	Dermal LD50: 3,160 mg/kg	Rabbit	-
Solvent Naphtha (Petroleum), Light Aromatic	Oral LD50: >14,000 mg/kg	Sprague-Dawley	-
	Dermal LD50: >2,000 mg/kg	Rabbit	-
	Inhalation LC50: 6,000 – 10,000 mg/m ³ (C9 aromatic naphtha)	Rat	4h

<u>Irritation/Corrosion</u>	No information on the product itself.
<u>Sensitization</u>	No information on the product itself.
<u>Mutagenicity</u>	No information on the product itself.
<u>Carcinogenicity</u>	No information on the product itself.
<u>Reproductive Toxicity</u>	No information on the product itself.
<u>Teratogenicity</u>	No information on the product itself.
<u>Specific target organ toxicity (single exposure)</u>	No information on the product itself.
<u>Specific target organ toxicity (repeated exposure)</u>	No information on the product itself.
<u>Aspiration hazard</u>	No information on the product itself.
<u>Potential acute health effects</u>	
Eye Contact	Liquid is moderately irritating to the eyes. High vapor concentrations may also be irritating. Direct contact with the liquid or exposure to its vapors or mists may cause stinging, tearing, redness.
Inhalation	High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness).

Skin Contact

Liquid is mildly irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Ingestion

Liquid is moderately toxic and may be harmful if swallowed; may produce CNS depression. Ingestion of product may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities may result in aspiration pneumonitis.

Delayed and immediate effects and also chronic effects from short and long term exposure

Potential chronic health effects

General

No information on the product itself.

Persons with pre-existing skin, eye, or central nervous system disorders, or impaired liver, kidney, or pulmonary function may be susceptible to the effects of this substance. Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

Carcinogenicity

No comprehensive data available showing potential carcinogenicity by OSHA, NTP, or IARC.

Mutagenicity

No information on the product itself.

Teratogenicity

No information on the product itself.

Developmental effects

No information on the product itself.

Fertility effects

No information on the product itself.

Numerical measures of toxicity

Acute toxicity estimates (ATEmix)

No data available

12. Ecological Information

Ecotoxicity

No information on the product itself.

Component	Test	Endpoint	Exposure	Species	Result
Solvent Naphtha (Petroleum), Light Aromatic	OECD 203 Fish, Acute Toxicity Test	Acute LC50	96 hr	Fish	9.2 mg/l

Persistence and degradability

No information on the product itself.

Bioaccumulative Potential

No information on the product itself.

Mobility in Soil

No information on the product itself.

Soil/water partition coefficient (KOC)

No data available.

Other adverse effects

No data available.

13. Disposal Considerations

Waste from residues/ unused products

The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste

generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Contaminated packaging

Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. Transport Information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

International Transport Regulations

Regulatory information	UN/NA number	Proper Shipping Name	Classes/*PG	Additional Information
DOT	UN1263	Paint	3 III	
TDG	UN1263	Paint	3 III	
IMO/IMDG	UN1263	Paint	3 III	
IATA	UN1263	Paint	3 III	

*PG: Packing group

Special precautions for user:

Transport within 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.

15. Regulatory Information

UNITED STATES

U.S. Federal Regulations

United States – TSCA 12(b) – Chemical export notification: None Required.
United States – TSCA 5(a)2 – Final significant new use rules: Not Listed.
United States – TSCA 5(a)2 – Proposed significant new use rules: Not Listed.
United States – TSCA 5(e) – Substance consent order: Not listed.

Clean Air Act – Ozone Depleting Substances (ODS)

None known.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)

None known.

Pennsylvania – RTK

None known.

California Prop. 65

WARNING: This product can expose you to chemicals including 4-chlorobenzotrifluoride that is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

EPA SARA 302/304 Extremely Hazardous Substances

To the best of our knowledge, this product is not listed as an extremely hazardous substance.

EPA SARA 311/312 Hazardous Chemicals

This product should be reported as immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

SARA 313

Toluene (CAS 108-88-3) and Benzene (CAS 71-43-2).

Form R – Reporting requirements CERCLA Hazardous substances

CERCLA RQ: 1000 lbs.

United States inventory (TSCA 8b)

All components are listed or exempted.

CANADA

WHMIS (Canada)

Class B-2: Flammable liquid.
Class D-2B: Material causing other toxic effects (Toxic).

Canadian NPRI
CEPA Toxic substances

None Required
None Required

INTERNATIONAL REGULATIONS

International Lists

Australia inventory (AICS): All components are listed or exempted.

Canada inventory: All components are listed or exempted.

Japan inventory: All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

16. Other Information, Including Date of Preparation or Last Revision

HMIS Rating

Health 2
Flammability 2
Physical Hazard 0

Date of Preparation	March 2, 2023
Date of Last Revision	December 2, 2020
Revision #	7.0
More Information	1-253-333-8118
Prepared by	System Three Resins Inc.

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