




SAFETY DATA SHEET

1. Product Identification

Product name	Spar Urethane Varnish Satin
SDS Number	1855S00
Product type	Urethane mixture.
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	3500 W. Valley Hwy North Suite 105 Auburn, WA 98001-2436 United States
Telephone	1-253-333-8118
Website	www.systemthree.com
Email	support-08@systemthree.com
Emergency Contact	CHEMTREC (U.S. and CANADA) 1-800-424-9300 CHEMTREC (Outside the U.S.) 1-703-527-0585

2. Hazard(s) Identification

Classification of substance or mixture/Signal word	DANGER! Flammable liquid Category 3 Eye Corrosive Category 2B
<u>GHS Label Elements</u> Hazard Pictograms	
<u>Hazard statements</u>	H225 Highly flammable liquid and vapor H304 May be fatal if swallowed and enter airways H315 Causes skin irritation H332 Harmful if inhaled H413 May cause long lasting harmful effects to aquatic life
<u>Precautionary Statements</u> Prevention	P280 Wear protective gloves. Wear eye or face protection. P241 Use explosion-proof electrical/ventilating/light/.../equipment. P260 Do not breathe dust/fume/gas/mist/vapors/spray P271 Use only outdoors or in a well-ventilated area.
Response	P308 + P313 If exposed or concerned: Get medical attention.
Storage	P401 Store above 32 °F / 0 °C
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

4. First-Aid Measures

Inhalation	Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
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.
Most important symptoms/effects, acute and delayed	Irritation. Pre-existing skin conditions may be aggravated by prolonged or repeated contact. Persons with sensitive airways (e.g., asthmatics) may be sensitive to vapors.
Indication of immediate medical attention and special treatment needed	Treat symptoms as they appear.

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.
Special protective equipment and precautions 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.
Fire-fighting equipment/instructions	Full fire suit and self-contained breathing apparatus.
Specific methods	Water spray may be used to cool fire-exposed containers. Toxic fumes may be evolved when this substance is burned.
General fire hazards	Warning! Flammable liquid. Clear fire area of unprotected personnel.

6. Accidental Release Measures

Personal precautions	Wear proper personal protective equipment (PPE). Avoid direct contact with material.
Protective equipment	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.

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.

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.

Chemical incompatibilities

None known.

8. Exposure Controls/Personal Protection

Chemical Name/CAS No.**OSHA Exposure Limits****ACGIH Exposure Limits****Other Exposure Limits**

Mineral Spirits
8052-41-3

TWA: 2900 mg/m³ 8 hours
TWA: 500 ppm 8 hours

TWA: 525 mg/m³ 8 hours
TWA: 100 ppm 8 hours

Not Established

Solvent Naphtha (Petroleum), Light
Aromatic
64742-95-6

Not Established

Not Established

Not Established

Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits.

Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below TLV. Ventilation equipment must be explosion proof.

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).

Skin protection

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

General hygiene during/after use

Use good personal hygiene when handling this product. Wash hands after use before eating, drinking, smoking or using the toilet.

Other use precautions

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

Appearance	Translucent liquid
Physical State	Liquid
Form	Satin Liquid
Color	Amber
Odor	Pungent odor
Odor threshold	Not applicable
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 or explosive limits	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	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	Epoxy resins and epoxy resin hardeners react with each other producing heat. They should not be mixed with each other under uncontrolled conditions or in large mass as the ensuing exotherm may result in heat and smoke, resulting in hazardous decomposition products.

Incompatible materials	Strong oxidizing agents, Lewis and mineral acids. Will dissolve or soften some plastics and rubber.
Hazardous decomposition products	Carbon monoxide and unidentified organic compounds may be formed during combustion. There should be no decomposition if stored and applied as directed.

11. Toxicological Information

Mixture Toxicity	Inhalation Toxicity LC50: 3,866 mg/kg		
Component Toxicity	CAS Number	Species	Result
Mineral Spirits	8052-41-3	Rabbit	Dermal LD50: 3,160 mg/kg
Solvent Naphtha (Petroleum), Light Aromatic	64742-95-6	Sprague-Dawley Rabbit Rat – 4h	Oral LD50: >14,000 mg/kg Dermal LD50: >2,000 mg/kg Inhalation LC50: 6,000 – 10,000 mg/m ³ (C9 aromatic naphtha)
Potential Health Effects			
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.		
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).		
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.		
Information on carcinogenicity	No comprehensive data available showing potential carcinogenicity by OSHA, NTP, or IARC.		
Immediate concerns	WARNING! Flammable liquid and vapor. Harmful or fatal if swallowed. Vapor harmful. May cause central nervous system depression. May be irritating to eyes and skin.		
Medical conditions aggravated	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.		
Comments	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.		

12. Ecological Information

Ecotoxicity	Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.		
Component	Toxic to aquatic life with long lasting effects.		
	Result	Species	Exposure

Solvent Naphtha (Petroleum), Light Aromatic 64742-95-6	LC50: 9.2 mg/L	Fish	96 h
Persistence and degradability	Not available		
Bioaccumulative potential	Not available		
Mobility in soil	Not available		

13. Disposal Considerations

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.

Waste Disposal Method

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.

RCRA/EPA Waste Information

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.

14. Transport Information

Regulatory information

DOT	UN/NA number	UN1263
	Proper Shipping Name	Paint
	Class or Division	3
	Packing Group	III
	Label(s)	
	Marine Pollutant	
TDG	UN/NA number	UN1263
	Proper Shipping Name	Paint
	Class or Division	3
	Packing Group	III
	Label(s)	
	Marine Pollutant	
IMO/IMDG	UN/NA number	UN1263
	Proper Shipping Name	Paint
	Class or Division	3
	Packing Group	III
	Label(s)	
	Marine Pollutant	
IATA (Cargo)	UN/NA number	UN1263
	Proper Shipping Name	Paint
	Class or Division	3
	Packing Group	III
	Label(s)	
	Marine Pollutant	

15. Regulatory Information

UNITED STATES

U.S. Federal Regulations

SARA TITLE III (Superfund Amendments and Reauthorization Act)

SARA 311/312 Hazard Categories: This product should be reported as immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

SARA 302/304 Emergency Planning: To the best of our knowledge, this product is not listed as an extremely hazardous substance.

California Prop. 65

This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

United States inventory (TSCA 8b)

All components are listed or exempted

CANADA

All components are listed in the DSL.

WHMIS (Canada)

Class B-2: Flammable liquid.

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

Canadian NPRI

None Required

CEPA Toxic substances

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

August 9, 2016

More Information

1-253-333-8118

Prepared By

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