

01060-1316

**SAFETY DATA SHEET (SDS)**

Prepared in accordance with U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System (GHS), Revision 9

Revision Date: 14 July 2025

1. IDENTIFICATION

Product Identifier: Spirits of Gum Turpentine — SKU 520-1TRPT

Recommended Use: Artist solvent/painting medium. Not intended for food, drug, or cosmetic use.

Manufacturer/Supplier: *Natural Pigments, LLC* | 291 Shell Lane, Willits, CA 95490 USA | +1-707-459-9998 (business)

Emergency Telephone (24 h): +1-800-424-9300 (CHEMTREC US) | +1-703-527-3887 (International)

2. HAZARD(S) IDENTIFICATION

GHS Classification of the substance

- **Flammable Liquid, Category 2** (H225)
- **Acute Toxicity (Oral, Dermal, Inhalation), Category 4** (H302, H312, H332)
- **Skin Irritation, Category 2** (H315)
- **Serious Eye Irritation, Category 2A** (H319)
- **Skin Sensitization, Category 1** (H317)
- **Aspiration Hazard, Category 1** (H304)
- **Specific Target Organ Toxicity – Single Exposure, Category 3 (respiratory & narcotic)** (H335, H336)

- **Hazardous to the Aquatic Environment – Chronic, Category 2 (H411)**

Label Elements (GHS):**Pictograms:**

Signal Word: *Danger*

Hazard Statements:

H225 Highly flammable liquid and vapor.
 H304 May be fatal if swallowed and enters airways.
 H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H332 Harmful if inhaled.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long-lasting effects.

Precautionary Statements:

Prevention: 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 explosion-proof equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe vapors. P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/eye protection.

Response: P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove contaminated clothing. Rinse skin with water. P333+P313 If skin irritation or rash occurs: Get medical advice. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell. 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

attention. P370+P378 In case of fire: Use alcohol-resistant foam, CO₂, dry chemical, or water fog to extinguish. P391 Collect spillage.

Storage: P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal: P501 Dispose of contents/container in accordance with local regulations.

Other Hazards: Rags soaked with turpentine may self-heat and spontaneously combust. Vapors are heavier than air and may travel to ignition sources and flash back.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS No.	Weight %	GHS Classification*
Gum Turpentine	8006-64-2	≥ 99	H225, H302, H312, H332, H304, H315, H317, H319, H335, H336, H411

*Contains α-pinene, β-pinene, limonene, and other terpenes responsible for classification.

4. FIRST-AID MEASURES

- **Inhalation:** Move victim to fresh air. If breathing is difficult, supply oxygen and seek medical attention.
- **Skin Contact:** Remove contaminated clothing. Wash with soap and water. If irritation or rash occurs, get medical advice.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present. Continue rinsing. Seek medical attention.
- **Ingestion:** Do NOT induce vomiting. Immediately call a poison center/physician. Rinse mouth with water.

Most Important Symptoms/Effects: Dizziness, headache, respiratory irritation, nausea, skin redness, allergic dermatitis, chemical pneumonia if aspirated.

5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Alcohol-resistant foam, CO₂, dry chemical, water spray/fog.
- **Unsuitable Media:** Straight water jet may spread burning liquid.
- **Specific Hazards:** Vapors may form explosive mixtures with air; containers may rupture when heated.
- **Protective Equipment:** Self-contained breathing apparatus and full protective clothing.

Flash Point (closed cup): $\approx 37^{\circ}\text{C}$ (98°F)

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Eliminate ignition sources. Ventilate area. Wear protective gloves, goggles, respirator.
 - **Containment/Clean-up:** Absorb with inert material (sand, vermiculite). Collect into labeled, grounded containers. Wash area with detergent. Prevent entry into drains or waterways.
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7. HANDLING AND STORAGE

- Handle in well-ventilated areas away from heat, sparks, open flames. Use non-sparking tools; ground/bond containers.
 - Store tightly closed in approved flammable-liquid containers at $5 - 30^{\circ}\text{C}$, away from oxidizers.
 - Store oil-soaked rags in sealed metal containers filled with water to prevent spontaneous combustion.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

Substance	OSHA PEL	ACGIH TLV
Turpentine	100 ppm TWA	20 ppm TWA

Engineering Controls: Explosion-proof local exhaust or general ventilation to maintain vapor < 25 % LEL.

Personal Protective Equipment:

- **Eye/Face:** Chemical splash goggles or face shield.
- **Skin:** Nitrile gloves; protective clothing.
- **Respiratory:** NIOSH-approved organic-vapor respirator if ventilation is inadequate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear, colorless to pale yellow liquid
Odor	Characteristic pine/terpene odor
pH	Not applicable
Melting/Freezing Point	< -50 °C
Initial Boiling Point	154 – 170 °C
Flash Point (TAG CC)	≈ 37 °C (98 °F)
Evaporation Rate	< 1 (n-BuAc = 1)
Flammability	Highly flammable liquid (Cat 2)
Vapor Pressure	~ 4 mm Hg @ 20 °C
Relative Density	0.86 (g/cm ³ @ 25 °C)

Solubility (water)	Insoluble; floats
Partition Coeff. (log K _{ow})	> 3
Auto-ignition Temp.	> 220 °C
Viscosity	< 2 cP

10. STABILITY AND REACTIVITY

- **Reactivity:** No dangerous reactions under normal conditions.
- **Chemical Stability:** Stable when stored properly.
- **Hazardous Reactions:** None expected.
- **Conditions to Avoid:** Heat, sparks, flames, static discharge.
- **Incompatible Materials:** Strong oxidizers, acids, bases.
- **Hazardous Decomposition Products:** CO, CO₂, irritating smoke.

11. TOXICOLOGICAL INFORMATION

Endpoint	Result
Acute Oral Toxicity	LD ₅₀ (rat) ≈ 5,000 mg/kg
Acute Dermal Toxicity	LD ₅₀ (rabbit) ≈ 2,000 mg/kg
Acute Inhalation Toxicity	LC ₅₀ (rat, 4 h) ≈ 13.7 mg/L
Skin Corrosion/Irritation	Causes skin irritation (Cat 2)
Serious Eye Irritation	Causes serious eye irritation (Cat 2A)
Skin Sensitization	Sensitizer (Cat 1)
Aspiration Hazard	Yes — chemical pneumonia risk

CarcinogenicityNot listed by IARC, NTP, OSHA

12. ECOLOGICAL INFORMATION

- **Aquatic Toxicity:** Toxic to aquatic organisms; LC_{50} (fish, 96 h) \approx 40 mg/L.
- **Persistence/Degradability:** Readily biodegradable.
- **Bioaccumulative Potential:** Moderate; $\log K_{ow} > 3$.
- **Mobility in Soil:** Low — substance floats on water and may volatilize.

Prevent release to the environment.

13. DISPOSAL CONSIDERATIONS

Dispose of waste and empty containers in accordance with federal, state, and local regulations. Incineration in an approved facility is preferred. Do not pour into drains or natural waters.

14. TRANSPORT INFORMATION

UN Number:	UN 1299
Proper Shipping Name:	Turpentine
Transport Hazard Class:	3
Packing Group:	III
Marine Pollutant (IMDG):	Yes
ERG Guide:	129

15. REGULATORY INFORMATION

- **TSCA:** Listed.
- **SARA 311/312:** Immediate (acute) health hazard; fire hazard; chronic hazard; environmental hazard.
- **SARA 313:** Not listed.
- **CERCLA:** Not reportable.
- **Proposition 65:** No listed substances present.
- **WHMIS 2023 (Canada):** Flammable liquids Cat 2; Acute toxicity Cat 4; Skin irritant; Eye irritant; Skin sensitizer; Aspiration hazard; STOT SE Cat 3; Aquatic Chronic 2.

16. OTHER INFORMATION

This SDS is based on supplier data for gum turpentine and publicly available hazard information for terpene constituents. While believed accurate as of the revision date, no warranty is expressed or implied. Users must determine suitability and ensure compliance with local regulations.

Revision History

- 14 Jul 2025 – Initial issue.