

Safety Data Sheet (SDS)

According to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision Date: 2026-01-07

Version: V-2

SECTION 1 — IDENTIFICATION

Product Name: OmniLayer

Product Code: 0001

Recommended Use:

Universal 3D printing bed adhesive designed to improve first-layer adhesion and reduce warping for PLA, PETG, ABS, ASA, PC, TPU, and carbon-fiber-reinforced filaments.

Manufacturer:

3Dreanimation LLC

11201 N Tatum Blvd

Tucson, AZ 85028, United States

Phone: 520-244-8720

Email: support@3dreanimation.com

Website: <https://www.3dreanimation.com>

Emergency Contact: (520) 244-8720

SECTION 2 — HAZARD IDENTIFICATION

Classification (GHS / OSHA 29 CFR 1910.1200)

- Flammable Liquid — Category 2
- Eye Irritation — Category 2A
- Specific Target Organ Toxicity (Single Exposure) — Category 3 (narcotic effects)

Signal Word: DANGER



Hazard Statements:

- **H225** – Highly flammable liquid and vapor
- **H319** – Causes serious eye irritation
- **H336** – May cause drowsiness or dizziness

Precautionary Statements:

- **P210** – Keep away from heat, sparks, open flames, and hot surfaces
- **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
- **P261** – Avoid breathing vapors
- **P264** – Wash hands thoroughly after handling
- **P271** – Use only outdoors or in well-ventilated area
- **P280** – Wear eye protection
- **P303+P361+P353** – IF ON SKIN (or hair): Remove contaminated clothing. Rinse skin with water
- **P305+P351+P338** – IF IN EYES: Rinse cautiously with water. Remove contact lenses if present
- **P304+P340** – IF INHALED: Move to fresh air and keep comfortable
- **P370+P378** – In case of fire: Use alcohol-resistant foam, dry chemical, or CO₂
- **P403+P235** – Store in a cool, well-ventilated place
- **P501** – Dispose of contents/container according to local regulations

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS (TRADE SECRET VERSION)

3.1 Mixture

This product is a proprietary mixture. Exact concentrations are withheld as a **trade secret** in accordance with OSHA 29 CFR 1910.1200(i).

Component	CAS Number	Concentration Range	Notes
Isopropyl Alcohol	67-63-0	50–90%	Flammable solvent
Polyvinyl Acetate (PVA) Emulsion	9003-20-7	1–15%	Adhesive polymer
Water	7732-18-5	1–20%	Diluent
Sucrose	57-50-1	1–10%	Film-forming agent

Trade Secret Claim:

Specific ingredient percentages are withheld to protect proprietary formulation.

All hazards associated with the mixture are fully disclosed in Sections 2, 4, 5, 6, 7, and 8.

SECTION 4 — FIRST AID MEASURES

Inhalation:

Move person to fresh air. Keep comfortable. Seek medical attention if symptoms persist.

Skin Contact:

Wash with soap and water. Remove contaminated clothing. Seek medical attention if irritation develops.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing.

Ingestion:

Rinse mouth. Do NOT induce vomiting. Seek medical attention if symptoms occur.

Most Important Symptoms:

- Eye irritation
- Dizziness or drowsiness from vapor inhalation

SECTION 5 — FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Alcohol-resistant foam, dry chemical, CO₂.

Unsuitable Media:

Direct water stream (may spread burning liquid).

Specific Hazards:

Vapors may form explosive mixtures with air.

Protective Equipment:

Firefighters should wear standard protective gear and self-contained breathing apparatus.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Eliminate ignition sources. Ensure ventilation. Avoid breathing vapors.

Small Spills:

Absorb with inert material (sand, vermiculite). Dispose properly.

Large Spills:

Evacuate area. Contain spill. Use non-sparking tools. Ventilate.

SECTION 7 — HANDLING AND STORAGE

Handling:

Keep away from heat and ignition sources. Use in ventilated areas. Avoid eye contact.

Storage:

Store tightly closed in a cool, well-ventilated place. Keep away from flames, sparks, and static discharge.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits (OSHA):

Chemical	Limit
Isopropyl Alcohol	TWA 400 ppm / STEL 500 ppm
Sucrose	10 mg/m ³ (total), 5 mg/m ³ (respirable)

Personal Protective Equipment:

- **Eye Protection:** Safety glasses or splash goggles
- **Skin Protection:** Gloves recommended for prolonged contact
- **Respiratory Protection:** Not required under normal use; use if ventilation is poor

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** dark purple hue
- **Odor:** Alcohol
- **State:** Liquid

- **pH:** ~7
- **Flash Point:** ~12°C (IPA dominant)
- **Boiling Point:** ~82°C
- **Vapor Pressure:** ~40 mmHg @ 20°C
- **Evaporation Rate:** Fast
- **Solubility:** Completely soluble in water
- **VOC Content:** 50–90% (IPA dominant)
- **Viscosity:** Low
- **Explosive Limits:** 2–12% (IPA vapor in air)

SECTION 10 — STABILITY AND REACTIVITY

Reactivity: Flammable liquid and vapor.

Stability: Stable under normal conditions.

Conditions to Avoid: Heat, sparks, flames.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition: CO, CO₂, organic vapors.

SECTION 11 — TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, inhalation, skin.

Symptoms: Eye irritation, dizziness, headache.

Acute Toxicity:

IPA LD50 (oral, rat): ~5,000 mg/kg (not highly toxic).

SECTION 12 — ECOLOGICAL INFORMATION

- IPA is biodegradable

- Not expected to bioaccumulate
- Avoid large releases into waterways

SECTION 13 — DISPOSAL CONSIDERATIONS

Dispose according to local regulations.
Do not pour large quantities into drains.

SECTION 14 — TRANSPORT INFORMATION (U.S.)

UN Number: UN1219
Proper Shipping Name: Isopropanol Solution
Hazard Class: 3 – Flammable Liquid
Packing Group: II
DOT: Regulated
IATA: Regulated
IMDG: Regulated

SECTION 15 — REGULATORY INFORMATION

- OSHA Hazardous Chemical (flammable)
- IPA listed on TSCA inventory
- Not classified as carcinogenic

SECTION 16 — OTHER INFORMATION

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Training recommended for safe handling of flammable liquids.
