



## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:**

# OSI Universal Ink Remover

---

### SECTION 1

### OSHA HAZARD CLASSIFICATIONS

Combustible Liquid. Irritant to eye and skin.

---

### SECTION 2

### INGREDIENT INFORMATION

<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>TLV</u>	<u>HAZARDOUS</u>
Limonene	5989-27-5	None established	Yes
Nonylphenoxy Poly(ethyleneoxy)ethanol, Branched	68412-54-4	None established	Yes
Triethanolamine	102-71-6	5 mg/m <sup>3</sup>	Yes

---

### SECTION 3

This section not applicable to non-biocides.

---

### SECTION 4

### FIRST AID INFORMATION

- EYE EXPOSURE.:** Hold eyelids open and flush with steady, gentle stream of water for at least 15 minutes. If symptoms persist or there is any visual difficulty, seek medical attention.
- SKIN EXPOSURE:** Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If symptoms persist seek medical attention.
- INHALATION.....:** If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If symptoms persist seek medical attention. If breathing is difficult, administer oxygen.
- INGESTION.....:** Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

---

### SECTION 5

### PRIMARY ROUTES OF EXPOSURE

#### 1. EFFECTS FROM ACUTE EXPOSURE:

**Eye Exposure.....:** May cause mild eye irritation. Symptoms include stinging, tearing and redness.

**Skin Exposure....:** May cause mild skin irritation. Prolonged or repeated contact may dry the skin.

Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects)

**Skin Absorption:** Skin absorption is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

**Inhalation.....:** Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

**Ingestion.....:** Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

## 2. EFFECTS FROM CHRONIC EXPOSURE:

This product does not contain any ingredient designated by IARC, NTP, ACGIC or OSHA as probable or suspected human carcinogens.

---

### SECTION 6

### TOXICOLOGICAL INFORMATION

---

**Acute Effects.....:** No toxicological data available.

**Irritant Effects.....:** Mild irritation to eyes and skin.

**Sensitization Effects...:** No information available.

**Carcinogenic Potential:** This product does not contain any ingredient listed in any of OSHA Standard, Section 1910.1200 sources as carcinogenic; not tested by Bluegrass KESCO.

**Other Health Effects...:** Test for neat Limonene: Oral LD<sub>50</sub> (rat) = > 5 g/kg; Dermal LD<sub>50</sub> (rabbit) = > 5 g/kg.

---

### SECTION 7

### ENVIRONMENTAL TOXICOLOGICAL INFORMATION

---

No data available.

---

### SECTION 8

### PHYSICAL/CHEMICAL PROPERTIES

---

<b>Flash Point</b>	> 124 °F (Closed cup)
<b>Boiling Point</b>	310 °F
<b>Specific Gravity @ 77° F.....</b>	0.88
<b>Melting Point</b>	N/A
<b>Vapor Pressure (mm Hg.)</b>	1 @ 68° F
<b>Vapor Density (Air=1)</b>	Not Available
<b>Evaporation Rate</b>	Not Available
<b>Solubility in Water</b>	Slight soluble.
<b>pH</b>	9.0
<b>Volatile Organic Compounds(VOC).....</b>	73 %
<b>Appearance and Odor</b>	Green liquid with citrus odor.

---

### SECTION 9

### FIRE AND EXPLOSION INFORMATION

---

**Flammable Limits.....:** 0.7 to 6.1 based on d-Limonene.

**Extinguishing Media.....:** Alcohol foam, water fog, carbon dioxide, dry chemical.

**Special Fire Fighting Procedures:** Self contained breathing apparatus with a full face-piece operated in the positive pressure demand mode and full turn-out gear and chemical resistant personal protective equipment.

---

### SECTION 10

### REACTIVITY INFORMATION

---

**Stability.....:** Stable

**Incompatibility.....:** Avoid contact with strong oxidizers agents.

**Hazardous Decomposition Products:** May form oxides of carbon, sulfur and nitrogen, and various hydrocarbons by thermal decomposition.

---

**SECTION 11****HANDLING PRECAUTIONS**

---

Rubber gloves, safety glasses or chemical splash goggles, body protective clothing such as long sleeve shirts and long trousers, and protective shoes are required.

Eye wash fountains in the work place are strongly recommended.

When splashing can occur, a protective face shield is required.

If local ventilation is not adequate wear appropriate respirator when handling large amounts.

---

**SECTION 12****SPILL, LEAK, AND DISPOSAL PROCEDURES**

---

**SPILL AND LEAK RESPONSE GUIDELINES**

**Important:** Before responding to a spill or leak of this product, review each section of this MSDS. Follow the recommendations given in the Handling Precautions sections. Check the Fire and Explosion Data section to determine if the use of non-sparking tools is merited. Insure that spilled or leaked product does not come into contact with materials listed as incompatible. If irritating fumes are present, consider evacuation of enclosed areas.

Initially minimize area affected by the spill or leak. Block any potential routes to water systems (e.g., sewers, streams, lakes, etc.). Based on the product's toxicological and chemical properties, and on the size and location of the spill or leak, assess the impact on contaminated environments (e.g., water systems, ground, air equipment, etc.). There are no methods available to completely eliminate any toxicity this product may have on aquatic environments. Minimize adverse effects on these environments. One Stroke Inks can be contacted for technical assistance. Determine if federal, state, and/or local release notification is required (see Regulatory Classifications section of this MSDS). Recover as much of the pure product as possible into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Address clean-up of contaminated environments. Spill or leak residuals may have to be collected and disposed of. Clay, soil, or commercially available absorbents may be used to recover any material that can not readily be recovered as pure product. Flushing residual material to an industrial sewer, if present at the site of a spill or leak incident may be acceptable if authorized approval is obtained. If product and/or spill/leak residuals are flushed to an industrial sewer insure that they do not come into contact with incompatible materials. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to intentionally flushing or pumping spills or leaks of this product to the industrial sewer.

**DISPOSAL GUIDELINES**

Note: Follow federal, state, and local regulations governing the disposal of waste materials.

Neat Product: Contact your One Stroke Inks representative at 800-942-4447.

**Contaminated Materials:** Determine if waste containing this product can be handled by available industrial effluent system or other on-site waste management unit. If off-site management is required, contact a company experienced in industrial waste management. This product is not specifically listed in 40 CFR 261 as a Resource Conservation and Recovery Act (RCRA) hazardous waste. However, spill or leak residuals may meet the criteria of a characteristic hazardous waste under this Act. Check the characteristics of the material to be disposed of and/or the physical and reactivity data given in this MSDS for the neat product.

**Container Disposal:** Empty containers, as defined by appropriate sections of the RCRA, are not RCRA hazardous wastes. However, insure proper management of any residuals remaining in container.

**MATERIAL SAFETY DATA SHEET**

---

**SECTION 13****TRANSPORTATION AND SHIPPING INFORMATION**

---

**DOT Shipping Name:** Combustible, Terpene Hydrocarbons, N.O.S (Limonene), Class 3, UN2319, PGIII

The following Regulations are known to apply to the use and disposal of this product. Additional Federal, State and Local regulation may also be applicable.

**SARA (Superfund Amendments and Reauthorization Act):**

**SARA 302 Extremely Hazardous Substances List:** No components of this product are listed.

**SARA 312 Hazard Category:** Immediate (Acute) Health Hazard.

**SARA 313 Toxic Chemicals List:** No Section 313 listed substances are present above de minimus levels.

**CERCLA (Comprehensive Environmental Response, Compensation and Liability Act):** No components of this product are listed.

**RCRA (Resource Conservation and Recovery Act) Listed Hazardous Wastes:** No components of this product are listed.

**CWA (Clean Water Act) Listed Substances:** No components of this product are listed.

**FDA (Food and Drug Administration):** This product is not approved for food contact uses.

**TSCA (Toxic Substances Control Act) Applicability:** All components are listed on TSCA Inventory.

**FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act):** This product is not a registered pesticide.

**HMIS/NPCA Ratings:** Health 1; Flammability 2; Reactivity 0

**NFPA Ratings.....:** Health 1; Flammability 2; Reactivity 0

**STATE REGULATIONS**

**Various State Right to Know Acts:** Non-proprietary hazardous chemicals are listed in Section 2 of this MSDS. Should you require further information on specific proprietary chemicals or inerts please contact One Stroke Inks.

---

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Product Data Sheet is the responsibility of the user. This Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communication regulations. One Stroke Inks warrants that this product conforms to chemical description and is the reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law or no agent of seller is authorized to alter this warranty in any except in writing with specific reference to this warranty.

The exclusive remedy against seller shall be a claim for damages not exceed the purchase price of this product, without regard to whether such a claim based upon breach of warranty or tort.

Any controversy or claim arising out of or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgement upon the award rendered by the Arbitration(s) may be entered in any court having jurisdiction thereof.

---