SECTION 1. IDENTIFICATION

1.1 Product Identifier **OptiClear Xylene**

Product Form: Liquid

Product Description: Cover Slipping Media

Cat No.: CSM1190, CSM11200, CSM1138

1.2 Intended Use of the Product

Recommended Use: Laboratory chemicals

Uses Advised Against: Not for food, drug, or household use

1.3 Name, and Address of Responsible Party

Company: SSN Solutions LLC

Address: 8437 Glazebrook Ave
Henrico VA, 23228
United States of America

Email: info@SSNSOL.com

1.4 Emergency Telephone Number

Chemtrec US: (800) 424-9300

Chemtrec Intl: (703) 527-3887

CCN Number: CCN1017637

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS-US Classification

H226	Flammable liquids (Flam. Liq. 3)
H304	Aspiration hazard (Category 1)
H312	Acute toxicity, Dermal (Acute Tox. 4 (Dermal))
H315	Skin irritation (Skin Irrit. 2)
H319	Eye irritation (Eye Irrit. 2)
H332	Acute toxicity, Inhalation (Acute Tox. 4 (Inhalation))
H335	Specific target organ toxicity - single exposure (STOT SE 3)
H336	Specific target organ toxicity - single exposure (Category 3) - Narcotic effects
H360Df	Reproductive toxicity (Category 1A, 1B)
H412	Hazardous to the aquatic environment - Long-term (Aquatic Chronic 3)

2.2 Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US):



GHS02 Flame | **GHS07** Exclamation Mark | **GHS08** Health Hazard

Signal Word: Danger

Hazard Statements:

H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H360Df	May damage the unborn child; Suspected of damaging fertility
H412	Harmful to aquatic life with long lasting effects

Precautionary Statements (GHS-US):

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.
P264+P265	Wash hands thoroughly after handling. Do not touch eyes.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: wash with plenty of water and soap. For persistent contamination, use polyethylene glycol 400
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal facility in accordance with local regulations

2.3 Other Hazards

None

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	% w/w
Xylenes	1330-20-7	65-75%
Poly(iso-Butyl methacrylate)	9011-15-8	25-35%
Proprietary Plasticizer	Withheld (Trade Secret)	0.5 – 1.5%

One or more component identities are withheld as a trade secret under 29 CFR 1910.1200(i). Hazard classification and concentration are disclosed as required; the specific chemical identity is available to health professionals and emergency responders on request.

SECTION 4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice:

Use chemical-resistant gloves, protective clothing, and eye protection; work in a well-ventilated area and keep the material away from ignition sources.

Eye Contact:

Flush the eyes with copious amounts of water for several minutes, removing contact lenses if they can be done easily. Severe eye pain, redness, blurred vision, and irritation are expected. Maintain irrigation and obtain emergency medical care without delay.

Skin Contact:

Remove all contaminated clothing and wash the skin thoroughly with plenty of water and soap; if contamination persists, use an appropriate cleansing agent. Redness, itching, burning sensation, or dermatitis may appear on the skin. Continue rinsing, and seek medical evaluation if irritation persists or systemic symptoms develop.

Inhalation:

Move the person to fresh air immediately and keep them at rest while ensuring the airway remains open. Coughing, shortness of breath, dizziness, and irritation of the respiratory tract may develop. Obtain emergency medical assistance, provide supplemental oxygen if breathing is difficult, and monitor for signs of respiratory distress.

Ingestion:

Do not induce vomiting; if the person is conscious, rinse the mouth with water. Nausea, vomiting, abdominal pain, and possible aspiration leading to respiratory difficulty may occur. Call emergency services immediately, provide supportive care, and allow medical personnel to determine the need for activated charcoal or other interventions.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

See Section 11 for toxicological information.

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician: The product contains xylenes, an aromatic hydrocarbon with systemic toxicity and respiratory irritation; the polymer component may cause skin irritation; the phthalate plasticizer presents a reproductive toxicity hazard. Provide supportive care and monitor for respiratory and dermal effects.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media:

Water spray (fog), Foam (AFFF), Dry chemical powder (ABC), Carbon dioxide (CO_2)

Unsuitable Extinguishing Media:

High-pressure solid water streams, Water jet

5.2 Special Hazards Arising from the Substance or Mixture

Combustion of xylenes generates carbon monoxide, carbon dioxide and dense aromatic vapors that are toxic when inhaled. Burning of the proprietary plasticizer (Proprietary Plasticizer) may release irritating and potentially hazardous fumes. The fire can spread rapidly due to the flammable liquid and vapor nature of the product.

5.3 Advice for Firefighters

Firefighters must wear self-contained breathing apparatus and full flame-resistant protective clothing, including gloves, face shield, and boots.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate non-essential personnel from the area. Wear chemical-resistant gloves (nitrile or butyl), splash-proof goggles, and a lab coat or chemical-resistant apron. Ensure the area is ventilated before approaching the spill and avoid any ignition sources. Trained responders should wear a full chemical-resistant suit, double gloves, splash-proof goggles or face shield, and a NIOSH-approved organic-vapor respirator. For larger spills or confined spaces, use supplied-air breathing apparatus and appropriate respiratory protection.

6.2 Environmental Precautions

Prevent the material from entering drains, sewers, or waterways. Contain the spill to avoid runoff. The product is flammable and may be toxic to aquatic life; take measures to protect the environment.

6.3 Methods and Material for Containment and Cleaning Up

Eliminate all ignition sources (no smoking, static discharge control). Ventilate the area using local exhaust or fans. Contain the spill with appropriate absorbent materials (e.g., inert sand, vermiculite, or commercial absorbents). Use non-sparking tools and equipment. Prevent runoff to drains by building a perimeter barrier with absorbent booms or sand dikes. Absorb the liquid with inert absorbent material (sand, vermiculite, or approved absorbent pads). Collect the saturated absorbent in sealed, labeled containers. Dispose of the waste as hazardous material through a licensed hazardous-waste contractor. Decontaminate the spill area with an appropriate solvent or cleaning agent, then rinse with water and allow to dry. Conduct a final inspection to ensure no residual material remains.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Avoid all sources of ignition and handle the product away from open flames. Wear chemical-resistant gloves, safety goggles, and an impervious lab coat; avoid inhalation of vapors and skin contact. Wash hands and any exposed skin thoroughly with soap and water after handling. If accidental skin contact occurs, flush the area with water for at least 15 minutes. Handle the product in a certified chemical fume hood or under local exhaust ventilation to control vapors. Use spark-proof equipment and keep appropriate fire-extinguishing media for flammable liquids readily available.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Store the product in a tightly sealed, flame-resistant container in a cool, well-ventilated area away from heat, sparks, and open flames. Keep the storage area locked and restrict access to authorized personnel. Store at room temperature, preferably below 30 °C to remain below the flash point. Use a metal or compatible high-density polyethylene container with a tight-fitting screw cap.

7.3 Specific End Use(s)

See Section 1.2 for intended use of this product.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Component	Agency	Limit Type	Value (ppm)	Value (mg/m³)	Notations
Xylenes CAS: 1330-20-7	OSHA	PEL-TWA	100	435	-
	NIOSH	REL-TWA	100	435	-
	NIOSH	REL-STEL	150	655	-
	NIOSH	IDLH	900	-	-

Substances listed in Section 3 but not shown above did not have an exposure limit identified in OSHA Table Z or the NIOSH Pocket Guide.

Source: *OSHA 29 CFR 1910.1000 (Table Z) and the NIOSH Pocket Guide (authoritative), supplemented by PubChem. Skin = potential for significant contribution to overall exposure by dermal route.*

Engineering Controls

Maintain operations in a well-ventilated area with local exhaust ventilation or fume hoods to capture vapors. Keep containers grounded and bonded during transfer to prevent static discharge. Store the product away from ignition sources and maintain temperature below the flash point. Implement leak detection and spill containment measures. Use automatic monitoring of airborne concentrations where feasible.

Personal Protective Equipment (PPE)

Eye/Face Protection: Wear safety goggles that provide splash and fog protection.

Respiratory Protection: When engineering controls cannot maintain airborne concentrations below occupational limits, use a NIOSH-approved respirator equipped with organic vapor cartridges. For situations where concentrations may approach IDLH levels, employ a supplied-air respirator or self-contained breathing apparatus.

Hand Protection: Wear chemical-resistant gloves such as nitrile or butyl that are compatible with aromatic solvents and plasticizers.

Body Protection: Don chemical-resistant coveralls or a full-body suit with a face shield to protect skin and clothing from splashes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical State	Liquid
Appearance	Clear
Odor	Pungent
Odor Threshold	No data available
pH	No data available
Melting Point/Freezing Point	No data available
Boiling Point/Boiling Range	No data available
Flash Point	32°C / 89.6°F
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
Lower Flammability/Explosive Limit	No data available
Upper Flammability/Explosive Limit	No data available
Vapor Pressure	6.7 mmHg
Vapor Density	No data available
Relative Density	No data available
Specific Gravity	No data available
Solubility in Water	Immiscible in water
Partition Coefficient (n-octanol/water)	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	18.5 mm²/s (40 °C)

9.2 Other Information

No additional information available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is a flammable liquid that can generate ignitable vapors at temperatures near its flash point and may react violently with strong oxidizing agents.

10.2 Chemical Stability

It remains chemically stable when stored in a cool, well-ventilated area away from ignition sources.

10.3 Possibility of Hazardous Reactions

Exposure to heat or open flame can cause rapid combustion, producing toxic gases; contact with strong oxidizers may lead to explosive or highly exothermic reactions.

10.4 Conditions to Avoid

Avoid heat, sparks, open flames, and contact with strong oxidizing agents.

10.5 Incompatible Materials

Strong oxidizing agents, Acids, Bases, Reactive metals (e.g., sodium, potassium)

10.6 Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide, Water vapor, Formaldehyde, Phthalic acid

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Acute Toxicity (LD50/LC50 Values):

No acute toxicity data available.

Chronic and Non-Acute Health Effects

Skin Corrosion/Irritation: Skin contact may cause redness, itching, and mild dermatitis, typically resolving within 24–48 hours. Prolonged or repeated exposure can increase the severity of irritation.

Serious Eye Damage/Irritation: Eye contact can cause painful redness, tearing, and temporary visual disturbance, usually alleviated by immediate flushing with water.

Respiratory or Skin Sensitization: Not classified as a sensitizer.

Germ Cell Mutagenicity: No evidence of mutagenic activity.

Carcinogenicity: Not listed as a carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity: No data available on reproductive effects.

STOT - Single Exposure: Inhalation of vapors may irritate the respiratory tract, causing coughing, throat discomfort, and bronchial inflammation. At higher concentrations, the vapors can depress the central nervous system, producing drowsiness, dizziness, and in severe cases, loss of consciousness.

STOT - Repeated Exposure: Not classified for repeated exposure organ toxicity.

Aspiration Hazard: If swallowed, the product can enter the airways and may cause severe lung injury that can be fatal.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity Data (US EPA ECOTOX Database):

Component	Endpoint	Species	Value	Duration
Xylenes CAS: 1330-20-7	Fish LC50	*Lepomis macrochirus*	10.4 mg/L	96h
	Crustacean EC50	*Cypris subglobosa*	90 mg/L	48.0h
	Algae EC50	*Algae*	3 mg/L	72h
Proprietary Plasticizer CAS: Withheld (Trade Secret)	Fish LC50	*Cyprinodon variegatus*	0.68 mg/L	96.0h
	Crustacean EC50	*Daphnia magna*	0.96 mg/L	48.0h

Component	Endpoint	Species	Value	Duration
	Algae EC50	*Skeletonema costatum*	0.17 mg/L	96.0h

** Data source: US EPA ECOTOX. Values represent the most sensitive (lowest) reported values per species, following the precautionary principle.*

12.2 Persistence and Degradability

Proprietary Plasticizer

Half-life: 0.32 days in water
Log Kow: 4.73

12.3 Bioaccumulative Potential

Proprietary Plasticizer

Log Kow: 4.73 (Potential for bioaccumulation)

12.4 Mobility in Soil

Proprietary Plasticizer

12.5 Other Adverse Effects

No other adverse environmental effects are known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste from Residues / Unused Products: Dispose of waste in accordance with applicable local, regional and national regulations. The material may be considered hazardous waste (D001 ignitable) based on a flash point of 32 °C; confirm via generator determination. Preferred disposal is incineration at a permitted hazardous-waste incinerator. Alternatively, an approved chemical-waste treatment facility may be used for proper disposal. The generator must perform a hazardous waste determination.

Contaminated Packaging: Empty containers should be rinsed of residual material where feasible, then placed in a closed, labeled, and approved waste container for collection by a licensed waste handler. If containers cannot be emptied, they must be sealed, labeled as hazardous waste, and disposed of in accordance with the same regulations.

Other Information: Personnel must wear appropriate protective equipment, including chemical-resistant gloves, goggles or face shield, and protective clothing. Prevent any release to the environment; do not discharge to sewers or drains. Secure containers to avoid spills and handle waste only in well-ventilated areas with adequate containment measures.

SECTION 14. TRANSPORT INFORMATION

In accordance with DOT

UN number: UN1307
UN proper shipping name: Xylenes
Transport hazard class(es): 3
Packing group: II

In accordance with IATA

UN number: UN1307
UN proper shipping name: Xylenes
Transport hazard class(es): 3
Packing group: II

In accordance with IMDG

UN number: UN1307
UN proper shipping name: Xylenes
Transport hazard class(es): 3
Packing group: II

Additional Transport Information

Environmental hazards: Not applicable

Marine pollutant: No

Special precautions for user: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment.

Transport in bulk (IMO instruments): Not applicable

SECTION 15. REGULATORY INFORMATION

15.1 US Federal Regulations

SARA Section 313 (specific toxic chemical listings): Xylenes

TSCA (Toxic Substances Control Act): All components of this product are listed on the TSCA Inventory or are exempt.

California Proposition 65:

⚠ **WARNING:** This product can expose you to chemicals including **Proprietary Plasticizer**, which is/are known to the State of California to cause cancer and/or reproductive harm. For more information go to www.P65Warnings.ca.gov.

15.2 US State Regulations

- None listed

Canadian Regulations

Not listed on DSL or NDSL

SECTION 16. OTHER INFORMATION

NFPA 704 Hazard Diamond

Color Key:

Blue - Health Hazard
Red - Flammability
Yellow - Instability/Reactivity
White - Special Hazards



Rating Scale:

0 = Minimal hazard
1 = Slight hazard
2 = Moderate hazard
3 = Serious hazard
4 = Severe hazard

Product Ratings:

Health: **2** (Moderate)
Flammability: **3** (Serious)
Instability: **0** (Minimal)
Special: **None**

Revision Date: 2026-06-29

Version: 6.1

Abbreviations and Acronyms

ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PPE: Personal Protective Equipment
REL: Recommended Exposure Limit
TLV: Threshold Limit Value

This document is based on our current knowledge and is intended to describe the product for health, safety, and environmental requirements only. It should not, therefore, be construed as guaranteeing any specific property of the product.