

Southern Lithoplate Inc.

Safety Data Sheet

Southern Lithoplate Viper TPX Developer

Section 1 - Chemical Product and Company Identification

1.1 Product identifier: Southern Lithoplate Viper TPX Developer

1.2 Relevant identified uses of the substance or mixture and uses advised against: For use in plating processes.

1.3 Details of the supplier of the safety data sheet:

Name: Southern Lithoplate Inc.
Address: 105 Jeffrey Way
Youngsville, N.Carolina. 27596

For information in North America, call:
919-556-9400

1.4 For emergencies in the US, call CHEMTREC:
800-424-9300

Section 2 - Hazards Identification

2.1 Classification of the Substance or Mixture

CLP /GHS Classification (1272/2008):

Physical:	Health:	Environmental
Non-Hazardous	Eye Corrosion Category 1 Carcinogen Category 2 Specific Target Organ Toxicity - Repeat Exposure Category 2	Non-Hazardous

EU Classification (67/548/EEC): Xi R36

2.2 Label Elements:

SDS Number: SLP Viper TPX Developer



DANGER!

Contains Sodium Octyl Sulfate, and N,N-Diethanolamine.

Statements of Hazard

H318 Causes serious eye damage

H351 Suspected of causing cancer

H373 May cause damage to liver, blood, and kidney through prolonged or repeated ingestion.

Precautionary Statements

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe spray or mists.

P280 Wear protective gloves, protective clothing, and eye protection.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P308 + P313 IF exposed or concerned: Get medical advice.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None

Section 3 - Composition, Information on Ingredients

3.2 Mixtures:

Chemical Name	CAS# / EINECS#	EU Classification (67/548/EEC)	GHS Classification Regulation (EC) No 1272/2008	%
Non-hazardous Ingredients	Mixture	Not Classified as Dangerous	Not Classified as Hazardous	>96

Sodium octyl sulfate	142-31-4 / 205-535-5	F, Xi R11, R37/38, R41	Flam. Sol. 1 (H228); Skin Irrit. 2 (H315); Eye Corr. 1 (H318); STOT SE 3 (H335)	1 - 2
N,N-Diethanolamine	111-42-2 / 203-868-0	Xi, Xn, R22, R38, R41, R48/22	Acute Oral Tox 4 (H302); Skin Irrit. 2 (H315); Eye Corr. 1 (H318); STOT RE 3 (H373); Carc. 2 (H351); Aqua. Chron. Tox. 3 (H412)	1 - 2

See Section 16 for further information on EU and GHS Classification.

Section 4 - First Aid Measures

4.1 Description of First Aid Measures

Eyes: If contact occurs, immediately flush eyes with large quantities of water for at least 20 minutes, holding the eyelids apart. Get immediate medical attention.

Skin: Rinse skin with plenty of water. If skin irritation or redness develops, seek medical attention.

Ingestion: Do not induce vomiting unless directed to by doctor or physician. If the victim is fully conscious, have them drink a glass of water. Get medical assistance by calling a doctor or poison center. Never give anything by mouth to a person who is unconscious or drowsy.

Inhalation: If symptoms of exposure develop, remove to fresh air. Seek medical attention if symptoms persist.

Notes to Physician: Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed: Causes eye irritation with the possibility of corneal damage. Inhalation of mists may cause mild respiratory irritation. Ingestion causes gastrointestinal irritation with nausea, vomiting and diarrhea. Repeated or prolonged ingestion may cause damage to damage to liver, blood, and kidney. Contains components suspected of causing cancer.

4.3 Indication of any immediate medical attention and special treatment needed: Seek immediate medical attention for eye contact.

Section 5 - Fire Fighting Measures

5.1 Suitable (and Unsuitable) Extinguishing Media: Use foam, dry chemical, or carbon dioxide.

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5.2 Specific Hazards Arising From the Chemical: During a fire, oxides of carbon and sulfur may be generated by thermal decomposition or combustion.

5.3 Advice for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

Section 6 - Accidental Release Measures

6.1 Personal Precautions, Protective Equipment, and Emergency

Procedures: Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing and equipment as described in Section 8.

6.2 Environmental Precautions: It is recommended to keep away from drains, surface and ground-water.

6.3 Methods and Materials for Containment / Cleanup: Absorb with an inert material. Collect into a suitable container for disposal. Rinse area with water. Prevent entry in storm sewers and waterways. Report spill as required by local and national regulations.

6.4 Reference to Other Sections: Refer to Section 8 for protective equipment and Section 13 for disposal considerations.

Section 7 - Handling and Storage

7.1 Precautions for Safe Handling: Avoid eye and skin contact. Avoid breathing mists or vapors. Use only with appropriate protective equipment. Wash thoroughly after handling and before eating, drinking, smoking or using toilet facilities.

Empty containers retain product residue and may be hazardous. Do not cut, weld, drill, etc. containers, even empty. Do not reuse empty containers.

7.2 Conditions for Safe Storage, Including Any Incompatibilities: Store locked up.

7.3 Specific end use(s): For use in plating processes.

Section 8 - Exposure Controls, Personal Protection

8.1 Control Parameters:

Chemical Name	Exposure Limits
Non-hazardous Ingredients: United States	None established

Germany United Kingdom European Union	None established None established None established
Sodium octyl sulfate: United States Germany United Kingdom European Union	None established None established None established None established
N,N-Diethanolamine: United States Germany United Kingdom European Union	0.2 ppm TWA ACGIH TLV (Skin) (Inhalable fraction and vapor) 1 mg/m ³ TWA, 1 mg/m ³ STEL DFG MAK 3 ppm TWA UK WEL None established

Note: If not listed above, refer to local regulations for specific country exposure limits.

8.2 Exposure Controls

Engineering Controls: General ventilation should be adequate for all normal use.

Personal Protective Equipment:

Respiratory Protection: For operations where exposure limits may be exceeded use a NIOSH approved respirator (mask) with appropriate eye protection. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134, and all other applicable regulations; and good Industrial Hygiene practice.

Gloves: Wear appropriate impervious protective gloves to avoid skin exposure.

Eyes: Wear chemical splash goggles.

Other Protective Equipment/Clothing: Wear appropriate protective clothing to avoid exposure.

Section 9 - Physical and Chemical Properties

9.1 Information on basic Physical and Chemical Properties:

Physical State: Liquid

Appearance: Light amber

Odor: Slight odor

Odor Threshold: Not available

pH: 9.8 @ 24°C (75°F)

Freezing/Melting Point: <32°F (<0°C)

Initial Boiling Point/Range: >212°F (>100°C)

Flash Point: >93°C (>200°F) Estimated

Evaporation Rate: Not available

Flammability (solid, gas): Not applicable

Flammability Limits: LEL: Not applicable

UEL: Not applicable

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Vapor Pressure: Not determined

Vapor Density: Not determined

Relative Density: ~1.03 g/ml

Solubility In Water: Soluble in water

Coefficient Of Water/Oil Distribution: Not determined

Autoignition Temp: Not Determined

Decomposition Temperature: Not available

Viscosity: Not Determined

Volatile Organic Compounds (VOC): ~0.09 g/ml (0.83 lbs/gal)

9.2 Other Information: None

Section 10 - Stability and Reactivity

10.1 Reactivity: Not normally reactive.

10.2 Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

10.3 Possibility of Hazardous Reactions: Will react with strong oxidizing agents.

10.4 Conditions to Avoid: Incompatible materials.

10.5 Incompatibilities with Other Materials: Strong oxidizing agents.

10.6 Hazardous Decomposition Products: During a fire, oxides of carbon and sulfur may be generated by thermal decomposition.

Section 11 - Toxicological Information

11.1 Information on Toxicological Effects:

Acute Hazards:

Inhalation: Mist and vapors may mild irritation to the upper respiratory tract.

Skin Contact: No adverse effects expected from the normal use of this product.

Eye Contact: Causes severe eye irritation. May cause eye damage.

Ingestion: Ingestion causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Chronic Effects: Repeated or prolonged ingestion may cause damage to damage to liver, blood, and kidney.

Carcinogenicity Listing: Diethanolamine is listed by IARC as 2B – Possibly carcinogenic to humans, and ACGHI as A3 – Confirmed animal carcinogen with unknown relevance to humans. None of the other components are listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH or OSHA.

Acute Toxicity Values:

Calculated ATE for Product: ATE Oral: >2000 mg/kg

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ATE Skin: >2000 mg/kg

Non-Hazardous ingredients: Not acutely toxic.

Sodium octyl sulfate: LD50 Oral Rat: >2000 mg/kg
LD50 Skin Rat: >2000 mg/kg

N,N-Diethanolamine: LD50 Oral Rat: 1820 mg/kg

Section 12 - Ecological Information

12.1 Ecotoxicity:

Sodium octyl sulfate:

LC50 Brachydanio rerio (Zebra Fish) >100 mg/L/96
EC50 Daphnia magna >100 mg/ L /48 hr.

N,N-Diethanolamine:

LC50: Pimephales promelas (Fathead minnow) 1370 mg/L/96 hr.
EC50 Ceriodaphnia sp. 30.1 mg/ L / 48 hr.

12.2 Persistence and Degradability:

Sodium octyl sulfate: Readily biodegradable

N,N-Diethanolamine: Readily biodegradable

12.3 Bio accumulative Potential:

N,N-Diethanolamine: BCF 2.3

12.4 Mobility in Soil:

Sodium octyl sulfate: KOC >75 <100

12.5 Results of PVT and vPvB assessment: No data available

12.6 Other Adverse Effects: No data available

Section 13 - Disposal Considerations

13.1 Waste Treatment Methods:

Dispose of in accordance with all local, state/provincial and federal regulations.

Section 14 - Transport Information

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	N/A	Not classified for	N/A	N/A	N/A

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		transport			
Canadian TDG	N/A	Not classified for transport	N/A	N/A	N/A
EU ADR/RID	N/A	Not classified for transport	N/A	N/A	N/A
IMDG	N/A	Not classified for transport	N/A	N/A	N/A

14.6 Special Precautions for User: None

14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code: Not determined.

Section 15 - Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

U.S. REGULATIONS:

TSCA

All ingredients are listed on the TSCA inventory.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Section 103: Hazardous Substances and corresponding RQs

N,N-Diethanolamine CAS# 111-42-2: RQ 100 lbs. (45.4 Kg).

Final RQ for product 5,000 lbs. (2,270 kg)

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Hazard Category (311/312): Acute Health, Chronic Health

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

N,N-Diethanolamine CAS# 111-42-2

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

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This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

US. State Regulations

California Prop 65

Contains chemicals that are listed.

European/International Regulations

WGK (Water Danger/Protection)

Sodium octyl sulfate CAS# 142-31-4: 2

N,N-Diethanolamine CAS# 111-42-2: 1

Canada - DSL/NDSL

All components listed on DSL/NDSL

Canada - WHMIS

This product has a WHMIS classification of:

D-2-A Very toxic material causing other toxic effects.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

Section 16 - Additional Information

SDS Date of preparation/revision: February 20, 2014 – Format updated to GHS SDS: Changes to all sections.

REVISION SUMMARY: Update OSHA HazCom 2012 GHS format: Changes to all sections.

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

F Flammable

Xi Irritant

Xn Harmful

R11 Highly flammable

R22 Harmful if swallowed.

R36 Irritating to eyes.

R38 Irritating to skin.

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R37/38 Irritation to respiratory system, and skin.

R41 Risk of serious damage to eyes.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

CLP /GHS Classification and H Phrases for Reference (See Section 3):

H228 Flammable Solid

H302 Harmful if swallowed

H315 Causes skin Irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer

H373 May cause damage to liver, blood, and kidney through prolonged or repeated ingestion.

H412 Harmful to aquatic life with long lasting effects.

Acute Oral Tox 4 – Acute Oral Toxicity Category 4

Aqua. Chron. Tox 3 – Chronic Aquatic Toxicity Category 3

Carc. 2 – Carcinogen Category 2

Eye Corr. 1 – Eye Corrosion Category 1

Flam. Sol. 1 – Flammable solid Category 1

Skin Irrit. 2 - Skin Irritation Category 2

STOT RE 2 – Specific Target Organ Toxicity: Repeat Exposure Category 2

STOT SE 3 – Specific Target Organ Toxicity: Single Exposure Category 3

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Southern Lithoplate Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Southern Lithoplate Inc. has been advised of the possibility of such damages.