

Southern Lithoplate Inc.
Material Safety Data Sheet

MAC Activator

Section 1 - Chemical Product and Company Identification

MSDS Name: Mac Activator

Company Identification:

Southern Lithoplate Inc.
105 Jeffrey Way
Youngsville, N.Carolina.

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

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

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7732-18-5	Water	60-100	231-791-2
1300-72-7	Sodium Xylene Sulfonate	7 - 13	-
100-51-6	Benzyl Alcohol	5 - 10	202-859-9
111-42-2	Diethanolamine	1 - 5	203-868-0

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: white or off-white clear liquid.

Caution! May cause eye irritation.

Target Organs: None.

Potential Health Effects

Eye: May cause irritation that may result in impairment of vision. Tearing and redness may occur.

Skin: May cause skin dryness and irritation.

Ingestion: Ingestion of large amounts may cause nausea, vomiting and abdominal pain.

Inhalation: May cause respiratory irritation.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, remove contact lenses after first 5 minutes, occasionally lift the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water. Wash clothing before reuse.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.

Inhalation: remove to fresh air.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

Flash Point: >200F TCC.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not applicable.

Upper: Not applicable.

NFPA/HMIS Rating: (estimated) Health: 1; Flammability: 0; Instability: 0; PPE B

Hazard Rating: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

Hazardous combustion products: Under certain fire conditions, this product contains materials that may decompose. The combustion products may include carbon oxides.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section.

For small spills flush area with water. For large spills use vermiculite or sawdust to absorb liquid. Place absorbed material into an approved container. Dispose of in accordance with federal, state and local regulations.

Section 7 - Handling and Storage

Precautions: Keep from freezing. Keep away from strong oxidants. Observe all labeled safeguards. Empty container retains vapor and product residue.

Handling: Wash thoroughly after handling. Avoid contact with skin and eyes. Avoid ingestion.

Storage: Store in a cool, dry place. Keep container closed when not in use.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Good general ventilation should be sufficient to control airborne levels.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Water	none listed	none listed	none listed
Sodium Xylene Sulfonate	none listed	none listed	none listed
Benzyl alcohol	none listed	none listed	none listed
Diethanolamine	2 mg/m ³ TWA	3 ppm TWA; 15 mg/m ³ TWA	none listed

OSHA Vacated PELs: Diethanolamine: 3 ppm TWA; 15 mg/m³ TWA. No OSHA

Vacated PELs are listed for water, benzyl alcohol and sodium or xylene sulfonate.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid.

Appearance: clear to amber liquid.

Odor: Mild sweet.

pH: 10.8 – 11.5

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: ~ 212F

Freezing/Melting Point: ~32F

Decomposition Temperature: Not available.

Solubility: Completely soluble.

Specific Gravity/Density: 1.06 – 1.07

VOC: ~0.6lb/gallon

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Freezing

Incompatibilities with Other Materials: Strong oxidisers.

Hazardous Decomposition Products: Carbon oxides.

Hazardous Polymerization: Has not been reported

Section 11 - Toxicological Information

CAS# 1300-72-7 no information available

CAS# 100-51-6:

Draize test, rabbit, skin: 100 mg/24H Moderate;
Inhalation, mouse: LC50 = >500 mg/m³;
Inhalation, rat: LC50 = >500 mg/m³;
Oral, mouse: LD50 = 1360 mg/kg;
Oral, rabbit: LD50 = 1040 mg/kg;
Oral, rat: LD50 = 1230 mg/kg;
Skin, rabbit: LD50 = 2000 mg/kg;
Skin, rat: LD50 = 100 pph/90M;

Skin sensitization, guinea pig: Sensitized 1/10.; Inhalation, rat, LCLo: 1000 ppm/8H.

CAS# 111-42-2:

Dermal, guinea pig: LD50 = 11900 uL/kg;
Draize test, rabbit, eye: 5500 mg Severe;
Draize test, rabbit, eye: 750 ug/24H Severe;
Draize test, rabbit, skin: 500 mg/24H Mild;
Oral, mouse: LD50 = 3300 mg/kg;
Oral, rabbit: LD50 = 2200 mg/kg;
Oral, rat: LD50 = 620 uL/kg;
Skin, rabbit: LD50 = 7640 uL/kg;

Carcinogenicity:

CAS# 1300-72-7, 100-51-6, 111-42-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: CAS# 111-42-2 Adverse reproductive effects have occurred in experimental animals.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Other Studies:

Section 12 - Ecological Information

ECOTOXICITY

CAS# 1300-72-7 No data

CAS# 100-51-6 Fish: Fathead Minnow: LC50 = 46.41 mg/L; 96 Hr.; Static, Soft

Water Fathead Minnow: LC50 = 59.30 mg/L; 96 Hr.; Static, Hard Water

Bluegill/Sunfish: LC50 = 25.05 mg/L; 96 Hr.; Static, Hard Water Goldfish: LC50 = 64.74 mg/L; 96 Hr.; Static, Hard Water flea Daphnia: EC50 = 400.0 mg/L; 48 Hr.; Unspecified flea Daphnia: EC50 = 23.0 mg/L; 48 Hr.; Unspecified ria: Phytobacterium phosphoreum: EC50 = 71.4 mg/L; 5,15,30 minutes; Microtox test, 15 degrees C log Pow:1.1 Fish toxicity: LC50 (48-96hr) fathead minnow 770-460 mg/l, static bioassay at 18-22°C [Verschuere, K. Handbook of Environmental Data of Organic Chemicals 2nd ed., 1983, Van Nostrand Reinhold, New York] Invertebrate toxicity: EC50 (5,15,30 min) Photobacterium phosphoreum 71.4 mg/l Microtox test [Kaiser, K.L.E; et al. Water Pollut. Res. J. Canada 1991, 26 (3),361-431] EC50 (48 hr) Daphnia magna 400 mg/l, EC100 (48 hr) Daphnia magna 500 mg/l

Environmental: CAS# 100-51-6 If released to soil, is expected to display high mobility and readily leach through soil. Volatilization from dry soil to the atmosphere may be an important fate process; however, it is not expected to be an important process in moist soils. If released to water, is expected to undergo microbial degradation under aerobic and anaerobic conditions.

CAS# 111-42-2 Terrestrial: Expected to biodegrade fairly rapidly following acclimation (half-life on the order of days to weeks). Expected to leach in soil. Aquatic: If released to water, should biodegrade. **Physical:** CAS# 100-51-6 In the atmosphere, is expected to exist almost entirely in the vapor phase. The estimated half-life for the vapor phase reaction of benzyl alcohol with photochemically produced hydroxyl radicals is 2 days.

CAS# 111-42-2 Expected to exist almost entirely in the vapor phase in the atmosphere. Reaction with photochemically generated hydroxyl radicals is expected to be the dominant removal mechanism (half-life 4 hours). Not expected to bioconcentrate.

Other: CAS# 100-51-6 volatilization to the atmosphere, hydrolysis, direct photolytic degradation, chemical oxidation, bioconcentration in fish and aquatic organisms, nor adsorption to sediment and suspended organic matter are not expected to be significant processes in environmental waters.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not Regulated	Not Regulated
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 1300-72-7, 100-51-6, 111-42-2, are listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

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 Hazardous Substances and corresponding RQs

CAS# 111-42-2: 100 lb final RQ; 45.4 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 100-51-6: acute. CAS # 111-42-2: immediate, delayed.

Section 313 This material contains Diethanolamine (CAS# 111-42-2, 99%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR.

Clean Air Act:

CAS# 111-42-2 is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors

MSDS Number **SLP005**

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 100-51-6 is present on state lists from PA, MN, MA.

CAS# 111-42-2 is present on state lists from CA, NJ, PA, MN, MA

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

Canada - DSL/NDSL

CAS# 1300-72-7, 111-42-2, 100-51-6 are listed on Canada's DSL List.

Canada - WHMIS

WHMIS: : D2B

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

Canadian Ingredient Disclosure List

CAS# 100-51-6, 111-42-2 are listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Revision Date 6/25/09

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.