



# MATERIAL SAFETY DATA SHEET

**Date Issued:** 02/23/2012  
**MSDS No:** 1550-G/5G/54G

## ECO-dFLUXER SMT 100

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** ECO-dFLUXER SMT 100  
**PRODUCT DESCRIPTION:** Aqueous Defluxer Concentrate  
**PRODUCT CODE:** 1550-G/5G/54G

#### MANUFACTURER

Techspray, L.P.  
 1001 N.W. 1st Street  
 P.O. Box 949  
 Amarillo, TX 79107

**Emergency Contact:** Chemtrec  
**Emergency Phone:** 1-800-858-4043  
**Service Number:** 1-800-858-4043

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

**CHEMTREC CCN#21858 (US Transportation) :**(800) 424 - 9300  
**CANUTEC (Canadian Transportation) :**(613) 996 - 6666  
**Emergency Phone :**(800) 858 - 4043

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** May cause skin/eye irritaton. May be harmful if swallowed.

#### POTENTIAL HEALTH EFFECTS

**EYES:** May cause irritation.

**SKIN:** May cause skin irritation.

**SKIN ABSORPTION:** Skin absorption can occur.

**INGESTION:** Harmful if swallowed.

**INHALATION:** Prolonged or excessive inhalation may cause respiratory tract irritation.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Liquid splashed in the eye may cause redness, irritation and conjunctivitis.

**SKIN:** Prolonged or exposure may cause skin irritation.

**SKIN ABSORPTION:** Glycol ingredients can be absorbed into skin.

**INGESTION:** For large amounts; abdominal pain, nausea and vomiting.

**INHALATION:** Inhalation may cause respiratory tract irritation.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Water	10 - 30	7732-18-5	231-791-2
Ethanol, 2-amino-	10 - 30	141-43-5	205-483-3
3-methyl-3-methoxy-1-butanol	10 - 30	56539-66-3	

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

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**INGESTION:** Do not induce vomiting. Give milk or water. Get immediate medical attention immediately.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** None to boiling point --- TAG CC

**HAZARDOUS COMBUSTION PRODUCTS:** Combustion generates smoke and fumes of oxides of carbon/nitrogen.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

**GENERAL PROCEDURES:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth, gravel, etc. as necessary and place in closed containers for disposal.

### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Wash thoroughly after handling. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Store in a cool dry place.

**HANDLING:** Use with adequate ventilation.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethanol, 2-amino-	TWA	3 ppm	6 mg/m <sup>3</sup>	3 ppm	7.5 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>
	STEL	6 ppm	15 mg/m <sup>3</sup>	6 ppm	15 mg/m <sup>3</sup>	NL ppm	NL mg/m <sup>3</sup>

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

**SKIN:** Gloves of the following materials may provide protection against permeation:  
Viton, solvex, Buna, Butyl, and Neoprene.

**RESPIRATORY:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements

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must be followed whenever workplace conditions warrant a respirator's use.

**WORK HYGIENIC PRACTICES:** Avoid contact with eyes. Avoid fume inhalation. Limit skin contact.

**OTHER USE PRECAUTIONS:** Emergency shower and eyewash facility should be in close proximity.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Low odor.

**APPEARANCE:** Clear, mobile liquid.

**COLOR:** Straw-colored.

**pH:** 11 to 11.6

**PERCENT VOLATILE:** 99+ at 104°C

**BOILING POINT:** ~ 95°C (203°F)

**Notes:** Initial boiling point

**FLASHPOINT AND METHOD:** None to boiling point --- TAG CC

**SOLUBILITY IN WATER:** Miscible

**DENSITY:** ~ 0.96 at 25°C (77°F)

**(VOC):** 8.271 % by weight

**Notes:** VOC for 10% dilution of concentrate in water

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Heat, flames, ignition sources, and incompatibles.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products include oxides of carbon and nitrogen.

**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**EYES:** Moderately to severely irritating

**DERMAL LD<sub>50</sub>:** Mildly to moderately irritating.

**SKIN ABSORPTION:** Glycol ingredients may be absorbed through skin.

**INHALATION LC<sub>50</sub>:** Not Established

**EYE EFFECTS:** Mixture is a moderate eye irritant.

**SKIN EFFECTS:** Causes irritation to skin.

#### CARCINOGENICITY

**IARC:** NOT listed

**NTP:** NOT listed

**OSHA:** NOT listed

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### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Compounds, cleaning liquid (ethanolamine)

**PRIMARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** NA1760

**PACKING GROUP:** III

#### AIR (ICAO/IATA)

**SHIPPING NAME:** Corrosive Liquid N.O.S

**TECHNICAL NAME:** Ethanolamine

**UN/NA NUMBER:** 1760

**PRIMARY HAZARD CLASS/DIVISION:** 8

**PACKING GROUP:** III

### 15. REGULATORY INFORMATION

#### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** IMMEDIATE / DELAYED

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** None

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

**CERCLA REGULATORY:** None

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Water	7732-18-5
Ethanol, 2-amino-	141-43-5
3-methyl-3-methoxy-1-butanol	56539-66-3

#### OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

**29 CFR 1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** None of the chemicals in this product are considered highly hazardous by OSHA.

**CALIFORNIA PROPOSITION 65:** This product contains no listed substances known to the State of California

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to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

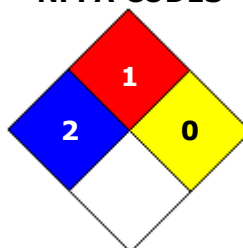
### CANADA

**WHMIS CLASS:** Class D2B, E - Toxic, Corrosive Materials

### 16. OTHER INFORMATION

**APPROVED BY:** Pierce A. Pillon     **TITLE:** Chemist

### NFPA CODES



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