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

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
IMMEDIATE CONCERNS: May cause skin/eye irritation. 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
<th>EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>10 - 30</td>
<td>7732-18-5</td>
<td>231-791-2</td>
</tr>
<tr>
<td>Ethanol, 2-amino-</td>
<td>10 - 30</td>
<td>141-43-5</td>
<td>205-483-3</td>
</tr>
<tr>
<td>3-methyl-3-methoxy-1-butanol</td>
<td>10 - 30</td>
<td>56539-66-3</td>
<td></td>
</tr>
</tbody>
</table>

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.
ECO-dFLUXER SMT 100

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL ppm</th>
<th>ACGIH TLV ppm</th>
<th>Supplier OEL ppm</th>
<th>mg/m³</th>
<th>mg/m³</th>
<th>mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-amino-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>3</td>
<td>6</td>
<td>3</td>
<td>7.5</td>
<td>NL</td>
<td>NL</td>
</tr>
<tr>
<td>STEL</td>
<td>6</td>
<td>15</td>
<td>6</td>
<td>15</td>
<td>NL</td>
<td>NL</td>
</tr>
</tbody>
</table>

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.
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PHYSICAL STATE:</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>ODOR:</strong></td>
<td>Low odor</td>
</tr>
<tr>
<td><strong>APPEARANCE:</strong></td>
<td>Clear, mobile liquid</td>
</tr>
<tr>
<td><strong>COLOR:</strong></td>
<td>Straw-colored</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>11 to 11.6</td>
</tr>
<tr>
<td><strong>PERCENT VOLATILE:</strong></td>
<td>99+ at 104°C</td>
</tr>
<tr>
<td><strong>BOILING POINT:</strong></td>
<td>~ 95°C (203°F)</td>
</tr>
<tr>
<td><strong>SOLUBILITY IN WATER:</strong></td>
<td>Miscible</td>
</tr>
<tr>
<td><strong>DENSITY:</strong></td>
<td>~ 0.96 at 25°C (77°F)</td>
</tr>
<tr>
<td><strong>(VOC):</strong></td>
<td>8.271 % by weight</td>
</tr>
</tbody>
</table>

**Notes:**
- Initial boiling point
- Flashpoint and method: None to boiling point --- TAG CC
- Dermal LD$_{50}$: Mildly to moderately irritating.
- Skin absorption: Glycol ingredients may be absorbed through skin.
- Inhalation LC$_{50}$: 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
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)

<table>
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OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---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
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

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