Safety Data Sheet

TEDA - L33

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTIFIER: TEDA – L33
MANUFACTURER / SUPPLIER: Everchem Specialty Chemicals
ADDRESS: 1400 N. Providence Road
Media, PA 19063, USA

PHONE: 1-484-234-5030
EMERGENCY PHONE: CHEMTREC 1-800-424-9300 (24 hour)

RECOMMENDED USE: General industrial products

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION
Acute toxicity
Oral: Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A

HAZARD SYMBOL:

SIGNAL WORD: WARNING

HAZARD STATEMENTS: Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.

PREVENTION: Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/eye protection/face protection.
2. HAZARDS IDENTIFICATION (continued)

RESPONSE: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
If on skin (or hair): Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
If swallowed: Rinse mouth. Call a poison control center/doctor if you feel unwell.

DISPOSAL: Dispose of contents/container in accordance with Federal and state regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>OSHA Hazard(Y/N)</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethylenediamine</td>
<td>280-57-9</td>
<td>Y</td>
<td>33</td>
</tr>
<tr>
<td>Dipropylene glycol</td>
<td>25265-71-8</td>
<td>Y</td>
<td>67</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYE CONTACT: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if eye irritation develops or persists.

SKIN CONTACT: Remove contaminated clothing and shoes. Wash with plenty of water, for at least 15 minutes. Seek medical attention if skin irritation develops or persists. Launder contaminated clothing and shoes before re-use.

INGESTION: Do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended.

INHALATION: If respiratory irritation or distress occurs, remove victim to fresh air. Seek immediate medical attention.
4. FIRST AID MEASURES (continued)

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote available.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog, dry chemical, foam, CO₂

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may rupture due to buildup of pressure when exposed to extreme heat.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Firefighters should wear NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.

HAZARDOUS DECOMPOSITION MATERIALS UNDER FIRE CONDITIONS: Oxides of carbon, oxides of nitrogen, ammonia.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate protective gear for the situation. (See Personal Protection Information in Section 8).

ENVIROMENTAL PRECAUTIONS: Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

METHOD FOR CLEAN UP: Extinguish or remove all sources of ignition. Absorb with an inert absorbent, sweep up and place in an appropriate closed container. Clean up residual material by washing area with water. Collect washings for disposal. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Handle material with suitable protection (See Section 8). Handle with adequate ventilation. Avoid breathing vapors. Avoid contact with eyes, skin and clothing.

VENTILATION: General area dilution/exhaust ventilation.
7. HANDLING AND STORAGE (continued)

CONDITIONS FOR SAFE STORAGE:
Store upright in a cool, dry, well ventilated area out of direct sunlight. Keep away from heat, open flames and ignition sources. Keep container tightly closed. Do not reuse container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES:
Set up hand-wash station and eyewash station near work area. General area dilution/exhaust ventilation.

EXPOSURE LIMITS:
None

PERSONAL PROTECTION MEASURES:

Respiratory protection: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with regulatory standards and/or industrial recommendations. Self-contained or supplied-air respiratory equipment is recommended.

Eye protection: Safety glasses with side shields, goggles or face shield are recommended.

Skin protection: Skin contact should be minimized through the use of chemical-resistant gloves and boots, and suitable protective clothing.

The following general measures should be taken when working or handling this material:
1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
COLOR: Pale yellow
ODOR: Ammonia-like
pH: 11.0 (@10% aqueous)
MELTING POINT: -4F (-20C)
BOILING POINT: 381-399F (194-204C)
FLASH POINT: 214F (101C)
AUTOIGNITION POINT: 612F (322C)
EXPLOSIVE LIMITS(Lower): No data available
EXPLOSIVE LIMITS(Upper): No data available
VAPOR PRESSURE: < 187 Pa @ 30C (86F)
VAPOR DENSITY: 4.37 (Air = 1)
EVAPORATION RATE: No data available

Date Prepared: April 7, 2015 Supersedes: April 29, 2011 (Page 4 of 8)
9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELATIVE DENSITY</td>
<td>1.03</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>Soluble</td>
</tr>
<tr>
<td>PARTITION COEFFICIENT</td>
<td>No data available</td>
</tr>
<tr>
<td>DECOMPOSITION TEMPERATURE</td>
<td>No data available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMICAL STABILITY</td>
<td>This material is stable under normal handling and storage conditions described in Section 7.</td>
</tr>
<tr>
<td>CONDITIONS TO AVOID</td>
<td>Heat, open flame, sparks, direct sunlight.</td>
</tr>
<tr>
<td>INCOMPATIBLE MATERIALS</td>
<td>Strong oxidizing agents, strong acids, copper, zinc, aluminum and their alloys.</td>
</tr>
<tr>
<td>HAZARDOUS DECOMPOSITION PRODUCTS</td>
<td>Oxides of carbon, oxides of nitrogen, ammonia.</td>
</tr>
<tr>
<td>HAZARDOUS POLYMERIZATION</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYE CORROSION/IRRITATION</td>
<td>Severely irritating, rabbit. (Data for Triethylene diamine)</td>
</tr>
<tr>
<td>SKIN CORROSION/IRRITATION</td>
<td>Moderately irritating, rabbit. (Data for Triethylene diamine)</td>
</tr>
<tr>
<td>ACUTE TOXICITY</td>
<td></td>
</tr>
<tr>
<td>ACUTE ORAL TOXICITY</td>
<td>LD&lt;sub&gt;50&lt;/sub&gt; = 1700 mg/kg, rat. (Data for Triethylene diamine)</td>
</tr>
<tr>
<td>ACUTE DERMAL TOXICITY</td>
<td>LD&lt;sub&gt;50&lt;/sub&gt; &gt; 2000 mg/kg, rat. (Data for Triethylene diamine)</td>
</tr>
<tr>
<td>ACUTE INHALATION TOXICITY</td>
<td>LC&lt;sub&gt;50&lt;/sub&gt; ≥ 20.2 mg/L/1 hour, rat (tested as a 20% solution). (Data for Triethylene diamine)</td>
</tr>
<tr>
<td>SKIN SENSITIZATION</td>
<td>Not a sensitizer (guinea pig). (Data for Triethylene diamine)</td>
</tr>
<tr>
<td>GENETIC TOXICITY</td>
<td>Not mutagenic in the Ames test or in vivo mouse micronucleus test. (Data for Triethylene diamine)</td>
</tr>
<tr>
<td>CARCINOGENICITY</td>
<td>This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be “probable” or “suspected” human carcinogens.</td>
</tr>
</tbody>
</table>
11. TOXICOLOGICAL INFORMATION (continued)

REPRODUCTIVE TOXICITY: In a combined repeat-dose/reproductive study (OECD 422), the NOAEL (no-observed-adverse-effect level) for F0 reproductive toxicity was considered to be 300 mg/kg/day. The NOAEL for F1 neonatal toxicity was considered to be 300 mg/kg/day. The NOAEL for F0 parental systemic toxicity was considered to be 100 mg/kg/day. (Data for Triethylenediamine)

STOT-SINGLE EXPOSURE: Not available

STOT-REPEATED EXPOSURE: In a combined repeat-dose/reproductive study (OECD 422), reversible, treatment-related effects were observed in the kidneys and bladders of mid-to-high dose animals. (Data for Triethylenediamine)

12. ECOLOGICAL INFORMATION

ECOTOXICITY: 96hr LC50 > 100 mg/L (carp) 48hr EC50 > 92 mg/L (daphnia magna) 72hr EC50 > 110 mg/L (algae, biomass), > 180 mg/L (algae, growth rate) (All data for Triethylenediamine)

PERSISTENCE AND DEGRADABILITY: Not readily biodegradable (Data for Triethylenediamine)

MOBILITY IN SOIL: No data available

13. DISPOSAL CONSIDERATION (INCLUDING CONTAINER)

RESIDUAL WASTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from Federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

CONTAMINATED VESSELS AND CONTAINERS: Rinse containers before disposal. Do not allow rinsate to enter the water systems. EPA Hazardous Waste = No
14. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: NOT REGULATED
UN NUMBER: None
UN CLASS or DIVISION: None
UN PACKING GROUP: None
LABELS: None
EMERGENCY GUIDE#: None

15. REGULATORY INFORMATION

Inventory Status: US (TSCA): Yes
Canada (DSL): Yes
EU (REACH): Yes
Australia (AICS): Yes
Japan (METI): Yes
Korea (KECL): Yes

Where: Yes = all ingredients are listed on the inventory, Exempt = All ingredients are either on the
inventory or exempt from the requirements of listing, No = Not determined, or one or more
ingredients are not on the inventory and are not exempt from listing

SARA Title III Hazard Classes:
Fire Hazard: No
Reactive Hazard: No
Release of Pressure: No
Acute Health Hazard: Yes
Chronic Health Hazard: Yes

SARA Extremely Hazardous Substances/CERCLA Hazardous Substances: None
California Proposition 65: This product does not contain any components that are regulated
under Proposition 65.

16. OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION
AND REVISION OF THIS MSDS

National Fire Protection Association (“NFPA”) Hazard Ratings:
Health: 2 (Moderate)
Flammability: 1 (Slight)
Reactivity: 0 (Minimal)

National Paint and Coatings Hazardous Materials Identification System (“HMIS”) Hazard Ratings:
Health: 2 (Moderate)
Flammability: 1 (Slight)
Physical Hazard: 0 (Minimal)

HISTORY:
Date previous SDS: April 29, 2011
Date of issue: April 7, 2015
Reasons for Revision: GHS Format
Date Prepared: April 7, 2015 Supersedes: April 29, 2011 (Page 7 of 8)
16. OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION
AND REVISION OF THIS MSDS (continued)

Disclaimer: The information set forth herein has been gathered from standard reference
materials and/or EVERCHEM SPECIALTY CHEMICALS test data and is to the best knowledge
and belief of EVERCHEM SPECIALTY CHEMICALS are accurate and reliable. Such information
is offered solely for your consideration, investigation, and verification, and is not suggested or
guaranteed that the hazard precautions or procedures mentioned are the only ones that exist.
EVERCHEM SPECIALTY CHEMICALS make no warranties, express or implied, and expressly
disclaim any and all such warranties with respect to the use of such information or the use of
specific material identified herein in combination with any other material or process, and assume
no responsibility therefor. EVERCHEM SPECIALTY CHEMICALS make no representation or
warranty, express or implied, and EXPRESSLY DISCLAIM ANY AND ALL SUCH WARRANTIES,
as to the usefulness, sufficiency, MERCHANTABILITY or FITNESS FOR ANY PURPOSE
whateversoever of the materials identified herein. The purchaser bears sole responsibility for testing,
evaluating and determining the suitability of these materials for whatever use(s), manufacturing
and refining processes, and any other such application(s) for which it intends or ultimately makes
of these materials. Purchaser bears sole responsibility for obtaining any and all regulatory, legal
and governmental approval necessary for such use(s).

END OF SAFETY DATA SHEET