

TEDA - L33

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

PRODUCT IDENTIFIER: TEDA - L33

MANUFACTURER / IMPORTER: TOSOH SPECIALTY CHEMICALS USA, Inc. ADDRESS:

1720 Windward Concourse, Suite 125

Alpharetta, Georgia 30005

PHONE: 1-770-442-9501

EMERGENCY PHONE: CHEMTREC 1-800-424-9300 OR 1-703-527-3887

RECOMMENDED USE: General industrial products

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquid Category 4

Acute toxicity

Oral: Category 4 Serious eye damage/eye irritation Category 1 Skin corrosion/irritation Category 2

HAZARD SYMBOL:





SIGNAL WORD: **DANGER**

HAZARD STATEMENTS: Combustible liquid.

> Harmful if swallowed. Causes skin irritation.

Causes serious eye damage.

PREVENTION: Keep away from flames and hot surfaces - No smoking.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Wear protective gloves/eye protection/face protection.

RESPONSE: If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison control center/doctor.

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2. HAZARDS IDENTIFICATION (continued)

RESPONSE: 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. In case of fire: Use water fog, dry chemical, foam, CO₂ to

extinguish.

STORAGE: Store in a well-ventilated place. Keep cool.

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

state regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA

Chemical NameCAS #Hazardous(Y/N)Concentration (%)Triethylenediamine280-57-9Y33Dipropylene glycol25265-71-8Y67

4. FIRST AID MEASURES

EYE CONTACT: Hold eyelids open and flush with a steady, gentle stream of

water for at least 15 minutes. Seek immediate medical attention.

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.

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.

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

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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

equipmment 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: 189F (87C)
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

RELATIVE DENSITY: 1.03 SOLUBILITY IN WATER: Soluble

PARTITION COEFFICIENT:

DECOMPOSITION TEMPERATURE:

No data available

No data available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: This material is stable under normal handling and storage

conditions described in Section 7.

CONDITIONS TO AVOID: Heat, open flame, sparks, direct sunlight.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, strong acids, copper, zinc, aluminum

and their alloys.

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10. STABILITY AND REACTIVITY (continued)

HAZARDOUS DECOMPOSITION

PRODUCTS: Oxides of carbon, oxides of nitrogen, ammonia.

HAZARDOUS POLYMERIZATION: Not applicable

11. TOXICOLOGICAL INFORMATION

EYE CORROSION/IRRITATION: Corrosive, rabbit. (Data for Triethylenediamine)

SKIN CORROSION/IRRITATION: Moderately irritating, rabbit. (Data for Triethylenediamine)

ACUTE TOXICITY:

ACUTE ORAL TOXICITY: LD $_{50}$ = 700 mg/kg, rat. (Data for Triethylenediamine) ACUTE DERMAL TOXICITY: LD $_{50}$ > 2000 mg/kg, rat. (Data for Triethylenediamine)

ACUTE INHALATION TOXICITY: LC ₅₀ ≥ 20.2 mg/L/1 hour, rat (tested as a 20% solution). (Data

for Triethylenediamine)

SKIN SENSITIZATION Not a sensitizer (guinea pig). (Data for Triethylenediamine)

GENETIC TOXICITY Not mutagenic in the Ames test or *in vivo* mouse micronucleus

test. (Data for Triethylenediamine)

CARCINOGENICITY: This product does not contain any substances that are

considered by OSHA, NTP, IARC or ACGIH to be "probable" or

"suspected" human carcinogens.

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 FI 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 (300-1000mg/kg) dose animals. In a 4-week inhalation study, rats were exposed to an aerosol of triethylenediamine for four weeks at concentrations up to 0.41 mg/L. The No Observed Adverse Effect Concentration (NOAEC) for systemic toxicity was 0.41 mg/L/6h/day, which was

the highest dose tested. (Data for Triethylenediamine)



12. ECOLOGICAL INFORMATION

ECOTOXICITY: 96hr $LC_{50} > 100 \text{ mg/L (carp)}$

 $48hr EC_{50} > 92 mg/L (daphnia magna)$

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 SDS 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:
UN CLASS or DIVISION:
None
UN PACKING GROUP:
None
LABELS:
None
EMERGENCY GUIDE#:
None

This material does not sustain combustion in accordance with ASTM D-4206.

15. REGULATORY INFORMATION

Inventory Status: US (TSCA): Yes

Canada (DSL): Yes EU (REACH): Yes Australia (AICS): Yes Japan (ENCS): 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

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15. REGULATORY INFORMATION (continued)

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 SDS

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:

Date of issue:

June 25, 2020

February 23, 2023

Reasons for Revision: Regulatory review and update. Change(s) in Section(s): 2, 9, 14

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END OF SAFETY DATA SHEET

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