

TOYOCAT-DT

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

PRODUCT IDENTIFIER: TOYOCAT- DT

MANUFACTURER: 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

Flammability Category 4

Acute toxicity

Oral: Category 4
Dermal: Category 3
Skin corrosion/irritation Category 1
Serious eye damage/eye irritation Category 1

HAZARD SYMBOL:





SIGNAL WORD: DANGER

HAZARD STATEMENTS: Harmful if swallowed.

Toxic in contact with skin.

Causes severe skin burns and serious eye damage.

Combustible liquid.

PREVENTION: Wear protective gloves/protective clothing/eye protection/face

protection.

Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Keep away from flames and hot surfaces – No smoking.

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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.

Immediately call a poison control center/doctor.

If on skin (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower.

Call a poison control center/doctor if you feel unwell.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for

breathing.

Immediately call a poison control center/doctor.

If swallowed: Rinse mouth. Do NOT induce vomiting.
Call a poison control center/doctor if you feel unwell.

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

extinguish.

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

Store locked up.

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

state regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA

Chemical Name	CAS#	Hazardous(Y/N)	Concentration (%)
Bis(2-dimethylaminoethyl)			
(methyl)amine	3030-47-5	Υ	>98
(synonym: Pentamethyldieth	nylenetriamine)		

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 if

irritation.

SKIN CONTACT: Remove contaminated clothing and shoes. Wash with plenty of

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

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.

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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.

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.

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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

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: Colorless
ODOR: Ammonia-like

pH: 11.3 (@10% aqueous)

MELTING POINT: -4F (-20C)
BOILING POINT: 394F (201C)
FLASH POINT: 167F (75C)
AUTOIGNITION POINT: 311F (155C)
EXPLOSIVE LIMITS(Lower): No data available
EXPLOSIVE LIMITS(Upper): No data available
VAPOR PRESSURE: 0.27 hPa @ 20C (68F)

VAPOR DENSITY: 6.02 (Air = 1) **EVAPORATION RATE:** No data available

RELATIVE DENSITY: 0.83 SOLUBILITY IN WATER: Soluble

PARTITION COEFFICIENT: -2.1 (@77F, 25C)
DECOMPOSITION TEMPERATURE: 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.

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10. STABILITY AND REACTIVITY (continued)

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

their alloys.

HAZARDOUS DECOMPOSITION

PRODUCTS:

Oxides of carbon, oxides of nitrogen, ammonia.

HAZARDOUS POLYMERIZATION: Not applicable

11. TOXICOLOGICAL INFORMATION

EYE CORROSION/IRRITATION: Corrosive, rabbit. SKIN CORROSION/IRRITATION: Corrosive, rabbit.

ACUTE TOXICITY:

ACUTE ORAL TOXICITY: LD $_{50}$ = 1600 μ l/kg, rat.

ACUTE DERMAL TOXICITY: LD $_{50}$ = 200-1000 mg/kg, rabbit. ACUTE INHALATION TOXICITY: LC $_{50}$ = 290 mg/L, rat (6hr, aerosol).

SKIN SENSITIZATION Negative sensitizer (guinea pig).

GENETIC TOXICITY Negative in the Ames test, Chromosome Aberration test and the

Mouse Lymphoma assay.

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 reproductive/developmental toxicity study in the rat, the

NOAEL (no-observed-adverse-effect level) was 300 mg/kg/day

for reproduction. The NOAEL was 100 mg/kg/day for

development. The value was established mainly on the basis of changes in post-implantation and post-natal development of pups. The increase post-implantation losses may have been

influenced by maternal toxicity.

STOT-SINGLE EXPOSURE: Not available.

STOT-REPEATED EXPOSURE: The value of NOAEL (No Observed Adverse Effect Level) for

repeated dose toxicity was established as 30 mg/kg/day. The value was established mainly on the basis of changes in biochemical parameters related to liver function and

histopathology of the liver.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: 96hr LC₅₀ =157 mg/L (rainbow trout)

48hr EC₅₀ = 55 mg/L (daphnia magna) 72hr EC₅₀ = 78 mg/L (algae, growth rate)

PERSISTENCE AND DEGRADABILITY: Not biodegradable.

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12. ECOLOGICAL INFORMATION (continued)

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 = C (Corrosive)

14. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: CORROSIVE LIQUID, TOXIC, N.O.S. (Bis(2-

dimethylaminoethyl)(methyl)amine)

UN NUMBER: UN2922
UN CLASS or DIVISION: 8, 6.1
UN PACKING GROUP: II

LABELS: Corrosive, Toxic

EMERGENCY GUIDE#: 154

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

SARA Title III Hazard Classes: Fire Hazard: Yes

Reactive Hazard: No Release of Pressure: No Acute Health Hazard: Yes Chronic Health Hazard: No

SARA Extremely Hazardous Substances/CERCLA Hazardous Substances: None

California Proposition 65: This product does not contain any components that are regulated under Proposition 65.

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

National Fire Protection Association ("NFPA") Hazard Ratings:

Health: 3 (Severe)

Flammability: 2 (Moderate) Reactivity: 0 (Minimal)

National Paint and Coatings Hazardous Materials Identification System ("HMIS") Hazard Ratings:

Health: 3 (Severe)

Flammability: 2 (Moderate)
Physical Hazard: 0 (Minimal)

HISTORY:

Date previous SDS: September 18, 2015
Date of issue: July 10, 2020

Reasons for Revision: Regulatory review and update. Change(s) in Section(s): 11

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END OF SAFETY DATA SHEET

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