



TOYOCAT-RX5

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

PRODUCT IDENTIFIER: TOYOCAT-RX5
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

HAZARD SYMBOL: None

SIGNAL WORD: **WARNING**

HAZARD STATEMENTS: Combustible liquid.

PREVENTION: Keep away from flames and hot surfaces – No smoking.
Wear protective gloves/eye protection/face protection.

RESPONSE: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use water spray, 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

<u>Chemical Name</u>	<u>CAS #</u>	<u>OSHA Hazardous(Y/N)</u>	<u>Concentration (%)</u>
2-[[2-(Dimethylamino)ethyl] methylamino]ethanol	2212-32-0	Y	≥ 98

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.

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).

ENVIRONMENTAL 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

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.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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:	11.4 (@10% aqueous)
MELTING POINT:	-4F (-20C)
BOILING POINT:	241F (116C)
FLASH POINT:	198F (92C)
AUTOIGNITION POINT:	No data available
EXPLOSIVE LIMITS(Lower):	No data available
EXPLOSIVE LIMITS(Upper):	No data available
VAPOR PRESSURE:	< 13 Pa @ 20C (68F)
VAPOR DENSITY:	5.08 (Air = 1)
EVAPORATION RATE:	No data available
RELATIVE DENSITY:	0.91
SOLUBILITY IN WATER:	Soluble
PARTITION COEFFICIENT:	No data available
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.

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:	No data available.
SKIN CORROSION/IRRITATION:	No data available.
ACUTE TOXICITY:	
ACUTE ORAL TOXICITY:	LD ₅₀ > 2500 mg/kg, rat.
ACUTE DERMAL TOXICITY:	No data available.
ACUTE INHALATION TOXICITY:	No data available.
SKIN SENSITIZATION	No data available.
GENETIC TOXICITY	No data available.
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:	No data available.
STOT-SINGLE EXPOSURE:	No data available.
STOT-REPEATED EXPOSURE:	No data available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:	No data available.
PERSISTENCE AND DEGRADABILITY:	No data available.
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:	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): No Australia (AICS): Yes Japan (METI): Yes Korea (KECL): Yes
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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: No
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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: 1 (Slight)
Flammability: 2 (Moderate)
Reactivity: 0 (Minimal)

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

Health: 1 (Slight)
Flammability: 2 (Moderate)
Physical Hazard: 0 (Minimal)

HISTORY:

Date previous SDS:	May 1, 2008
Date of issue:	April 7, 2015
Reasons for Revision:	GHS Format

SAFETY DATA SHEET: TOYOCAT-RX5– US-GHS Version
Date Prepared: April 7, 2015 Supercedes: May 1, 2008 (Page 6 of 7)



**TOSOH SPECIALTY
CHEMICALS USA, INC.**

**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 TOSOH SPECIALTY CHEMICALS USA, INC and its related, subsidiary and affiliated companies' test data and is to the best knowledge and belief of TOSOH SPECIALTY CHEMICALS USA, INC and its related, subsidiary and affiliated companies, 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. TOSOH SPECIALTY CHEMICALS USA, INC and its related, subsidiary and affiliated companies 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. TOSOH SPECIALTY CHEMICALS USA, INC and its related, subsidiary and affiliated companies 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 whatsoever 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