

# TOYOCAT – DM70

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

PRODUCT IDENTIFIER:	TOYOCAT- DM70
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**

Category 4
Category 2
Category 1
Category 1
Category 1
Category 3
Category 2

#### HAZARD SYMBOL:



### SIGNAL WORD:

### HAZARD STATEMENTS:

### DANGER

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to kidneys through prolonged or repeated exposure.



# 2. HAZARDS IDENTIFICATION (continued)

PREVENTION:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Use only outdoors or in a well-ventilated area.
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): Wash with plenty of water. If skin irritation or rash 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. If exposed or concerned: Get medical advice/attention.
STORAGE:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
DISPOSAL:	Dispose of contents/container in accordance with Federal and state regulations.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

		OSHA	
Chemical Name	<u>CAS #</u>	<u>Hazardous(Y/N)</u>	Concentration (%)
1,2-Dimethylimidazole	1739-84-0	Y	70
Ethylene glycol	107-21-1	Y	30

# **4. FIRST AID MEASURES**

**SKIN CONTACT:** 

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

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.



# 4. FIRST AID MEASURES (continued)

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, CO <sub>2</sub>
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

Ethylene glycol (vapor)

25 ppm – ACGIH TWA, 50 ppm – ACGIH STEL

(where: TWA = Time-Weighted Average (8-hour exposure), PEL = Permissible Exposure Limit (8-hour exposure), STEL = Short-Term Exposure Limit (15-minute time-weighted average exposure)

### **PERSONAL PROTECTION MEASURES:**

Respiratory protection: PERSONAL PROTECTION MEASURES:	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: COLOR: ODOR: pH: MELTING POINT: BOILING POINT: FLASH POINT: AUTOIGNITION POINT: EXPLOSIVE LIMITS(Lower): EXPLOSIVE LIMITS(Upper): VAPOR PRESSURE: VAPOR PRESSURE: VAPOR DENSITY: EVAPORATION RATE: RELATIVE DENSITY: SOLUBILITY IN WATER: PARTITION COEFFICIENT: DECOMPOSITION TEMPERATURE: 10. STABILITY AND REACTIVITY	Liquid Pale yellow Ammonia-like 10.7 @ 10% aq (@68F (20C)) No data available 388-401F (1989-205C) 235F (113C) No data available No data available 13 Pa @ 68F (20C) 2.85 (air = 1) No data available 1.04 Soluble No data available No data available No data available
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: SKIN CORROSION/IRRITATION:	Severely irritating, rabbit. (Data for 1,2-Dimethylimidazole) Moderately irritating, rabbit. (Data for 1,2-Dimethylimidazole)
ACUTE TOXICITY: ACUTE ORAL TOXICITY: ACUTE DERMAL TOXICITY:	LD $_{50}$ = 1300 mg/kg (approx), rat. (Data for 1,2- Dimethylimidazole)
ACUTE INHALATION TOXICITY:	LD <sub>50</sub> > 200 mg/kg, rat. Data for 1,2-Dimethylimidazole) LC <sub>50</sub> = 12 mg/L//4hr, rat Data for 1,2-Dimethylimidazole)
SKIN SENSITIZATION	Positive sensitizer (Local lymph node assay). (Data for 1,2- Dimethylimidazole)
GENETIC TOXICITY	Not mutagenic in the Ames test (Data for 1,2-Dimethylimidazole)

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# 11. TOXICOLOGICAL INFORMATION (continued)

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:	The oral administration of 1,2-dimethylimidazole to pregnant rats from implantation to one day prior to the expected day of parturition provided evidence of maternal toxicity at the high- dose level of 360 mg/kg/day. Increased relative and absolute adrenal gland weights were also seen at this dosage. The no observed adverse effect level (NOAEL) for maternal toxicity is 120 mg/kg/day. The no observed adverse effect level (NOAEL) for prenatal developmental toxicity is 120 mg/kg/day due to the high number of post-implantation losses. Multiple external malformations were noted at the high-dose level of 360 mg/kg/day.
STOT-SINGLE EXPOSURE:	Ethylene glycol may cause central nervous system depression and drowsiness.
STOT-REPEATED EXPOSURE:	In a combined repeat-dose/reproductive study (OECD 422) with 1,2-Dimethylimidazole, no clinical signs of toxicity were noted during the observation period at doses up to 150 mg/kg/day. The NOAEL for ethylene glycol was determined to be 150 mg/kg/day and appears to be a threshold dose below which no renal toxicity occurs.
<b>12. ECOLOGICAL INFORMATION</b>	

ECOTOXICITY:	96hr LC <sub>50</sub> = 63 mg/L (zebra fish) 48hr EC <sub>50</sub> > 100 mg/L (daphnia magna) 72hr EC <sub>50</sub> = 58 mg/L (algae, growth rate) (All data for 1,2- Dimethylimidazole)
PERSISTENCE AND DEGRADABILITY:	Inherently biodegradable (Data for 1,2-Dimethylimidazole).
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.

# TOSOH SPECIALTY CHEMICALS USA, INC.

# 13. DISPOSAL CONSIDERATION (INCLUDING CONTAINER) (continued)

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

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

**SARA Extremely Hazardous Substances/CERCLA Hazardous Substances:** Ethylene glycol (107-21-1) (30%), TPQ=5000 pounds, 2270 kg

**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)



# 16. OTHER INFORMATION INCLUDING INFORMATION ON PREPARATION AND REVISION OF THIS SDS (continued)

# 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: Reasons for Revision:

April 7, 2015 February 24, 2023 Regulatory review and update. Change(s) in Section(s): 2, 11

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### END OF SAFETY DATA SHEET