



TOSOH

TOSOH SPECIALTY CHEMICALS USA, INC.

**RZETA**

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

**PRODUCT IDENTIFIER:** RZETA

**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**

Sensitization – Skin

Category 1B

### **HAZARD SYMBOL:**



### **SIGNAL WORD:**

**WARNING**

### **HAZARD STATEMENTS:**

May cause an allergic skin reaction.

### **PREVENTION:**

Avoid breathing fume/mist/vapors/spray.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves.

### **RESPONSE:**

If on skin (or hair): Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.

### **DISPOSAL:**

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



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

<b><u>Chemical Name</u></b>	<b><u>CAS #</u></b>	<b>OSHA <u>Hazardous(Y/N)</u></b>	<b><u>Concentration (%)</u></b>
1,4-Diazabicyclo[2.2.2]octane- 2-methanol	76950-43-1	Y	< 35
Dipropylene glycol	25265-71-8	N	> 65

**THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT YET BEEN FULLY INVESTIGATED. MATERIAL SHOULD ONLY BE HANDLED UNDER THE SUPERVISION OF A TECHNICALLY QUALIFIED INDIVIDUAL.**

**Use of this product in the United States is restricted to research and development (R&D) only, under the provisions outlined in Section 5(h)(3) of the Toxic Substances Control Act.**

### **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 irritation develops or persists or if visual changes occur.

**SKIN CONTACT:**

Remove contaminated clothing and shoes. Wash with plenty of water, for at least 15 minutes. Seek medical attention if irritation or rash 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.



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## **5. FIRE FIGHTING MEASURES**

<b>EXTINGUISHING MEDIA:</b>	Water spray, fog, dry chemical, foam, CO <sub>2</sub>
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	Closed containers may rupture due to buildup of pressure when exposed to extreme heat.
<b>SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:</b>	Firefighters should wear NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.
<b>HAZARDOUS DECOMPOSITION MATERIALS UNDER FIRE CONDITIONS:</b>	Oxides of carbon, oxides of nitrogen, ammonia.

## **6. ACCIDENTAL RELEASE MEASURES**

<b>PERSONAL PRECAUTIONS:</b>	Wear appropriate protective gear for the situation. (See Personal Protection Information in Section 8).
<b>ENVIRONMENTAL PRECAUTIONS:</b>	Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.
<b>METHOD FOR CLEAN UP:</b>	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**

<b>PRECAUTIONS FOR SAFE HANDLING:</b>	Handle material with suitable protection (See Section 8). Handle with adequate ventilation. Avoid breathing vapors. Avoid contact with eyes, skin and clothing.
<b>VENTILATION:</b>	General area dilution/exhaust ventilation.
<b>CONDITIONS FOR SAFE STORAGE:</b>	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 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**

<b>PHYSICAL STATE:</b>	Liquid
<b>COLOR:</b>	Clear to pale yellow
<b>ODOR:</b>	Ammonia-like
<b>pH:</b>	10.9 (@10% aqueous)
<b>MELTING POINT:</b>	No data available
<b>BOILING POINT:</b>	No data available
<b>FLASH POINT:</b>	279F (137C)
<b>AUTOIGNITION POINT:</b>	No data available
<b>EXPLOSIVE LIMITS(Lower):</b>	No data available
<b>EXPLOSIVE LIMITS(Upper):</b>	No data available
<b>VAPOR PRESSURE:</b>	No data available
<b>VAPOR DENSITY:</b>	No data available
<b>EVAPORATION RATE:</b>	No data available
<b>RELATIVE DENSITY:</b>	1.10
<b>SOLUBILITY IN WATER:</b>	Soluble
<b>PARTITION COEFFICIENT:</b>	Log Pow = 0.3 @ 77F (25C)
<b>DECOMPOSITION TEMPERATURE:</b>	No data available



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## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

<b>EYE CORROSION/IRRITATION:</b>	Non-irritating, rabbit. Data for 1,4-Diazabicyclo[2.2.2]octane- 2-methanol.
<b>SKIN CORROSION/IRRITATION:</b>	Non-irritating, in-vitro. Data for 1,4-Diazabicyclo[2.2.2]octane- 2-methanol.
<b>ACUTE TOXICITY:</b>	
<b>ACUTE ORAL TOXICITY:</b>	LD <sub>50</sub> > 2000 mg/kg, rat. Data for 1,4-Diazabicyclo[2.2.2]octane- 2-methanol.
<b>ACUTE DERMAL TOXICITY:</b>	LD <sub>50</sub> > 2000 mg/kg, rat. Data for 1,4-Diazabicyclo[2.2.2]octane- 2-methanol.
<b>ACUTE INHALATION TOXICITY:</b>	Not available
<b>SKIN SENSITIZATION</b>	Positive sensitizer (local lymph-node assay). 1,4-Diazabicyclo[2.2.2]octane- 2-methanol.
<b>GENETIC TOXICITY</b>	Not mutagenic in the Ames test or <i>in vivo</i> mouse micronucleus test. 1,4-Diazabicyclo[2.2.2]octane- 2-methanol.
<b>CARCINOGENICITY:</b>	This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human carcinogens.
<b>REPRODUCTIVE TOXICITY:</b>	In a combined repeat-dose/reproductive study, the NOAEL (no-observed-adverse-effect level) for F0 reproductive toxicity was considered to be 1000 mg/kg/day for both parental systemic toxicity and development of offspring. Data for 1,4-Diazabicyclo[2.2.2]octane- 2-methanol.
<b>STOT-SINGLE EXPOSURE:</b>	Not available



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## **11. TOXICOLOGICAL INFORMATION (continued)**

**STOT-REPEATED EXPOSURE:** In a combined repeat-dose/reproductive study, the NOAEL (no-observed-adverse-effect level) for F0 reproductive toxicity was considered to be 1000 mg/kg/day for both parental systemic toxicity and development of offspring. Data for 1,4-Diazabicyclo[2.2.2]octane- 2-methanol.

## **12. ECOLOGICAL INFORMATION**

**ECOTOXICITY:** 96hr LC<sub>50</sub> > 94.5 mg/L (ricefish)  
48hr EC<sub>50</sub> > 91.3 mg/L (daphnia magna)  
72hr EC<sub>50</sub> > 89.6 mg/L (algae, growth rate)  
All Data for 1,4-Diazabicyclo[2.2.2]octane- 2-methanol.

**PERSISTENCE AND DEGRADABILITY:** Not readily biodegradable. Data for 1,4-Diazabicyclo[2.2.2]octane- 2-methanol.

**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



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## **15. REGULATORY INFORMATION**

### **Inventory Status:**

US (TSCA): No  
Canada (DSL): No

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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

**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: None  
Date of issue: April 7, 2015  
Reasons for Revision: GHS Format



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

**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**