

HMIS

Health	1
Fire	1
Reactivity	0

0=Least  
1=Slight  
2=Mild  
3=Moderate  
4=High

# MATERIAL SAFETY DATA SHEET

**Effective Date:** March 10, 2009**Date Printed:** March 10, 2009

## 1. Product and Chemical Identification

**Product Code:** C106816**Product Name:** Oxalide® T**Manufacturer:**

Japan:  
Takasago International Corporation  
Product Safety & Regulatory Affairs Department  
37-1, Kamata 5-chome, Ohta-ku  
Tokyo, JAPAN  
Phone: 81-3-5744-0577  
Fax: 81-3-5744-0593

**USA:**

Takasago International Corporation (USA)  
4 Volvo Drive  
Rockleigh, NJ 07647 USA  
Phone: (201) 767-9001 (Sales Office)  
Fax: (201) 767-7277

**Emergency Telephone Numbers (USA):**

Health & Environmental: (201) 767-9001 9 a.m. – 5 p.m. EST M-F  
CHEMTREC: (800) 424-9300 24 hours Everyday  
CHEMTREC (International): (01) (703) 527-3887 [U.S.A.]  
24 hours Everyday

**Europe:**

Takasago International Chemicals (Europe) S.A.  
Ctra. Mazarron, km 1,8  
30120 El Palmar (Murcia) – SPAIN  
Phone: 34-968-881019/880839  
Fax: 34-968-880880

**Emergency Telephone Numbers (Europe):**

Normal Working Hours: 34-968-881019/880839  
After Hours: 34-968-880104

## 2. Hazards Identification

**Emergency Overview:**

Colorless to pale yellow viscous liquid with a musk, sweet, animalic, floral odor

May cause skin and eye irritation.

**Potential Health Effects:**

**Eye:** May cause eye irritation

**Skin:** May cause skin irritation.

**Ingestion:** No adverse effects anticipated by swallowing.

**Inhalation:** No adverse effects anticipated by breathing small amounts.

**Potential Environmental Effects:** This material is readily biodegradable.

### 3. Composition/Information on Ingredients

<u>Component</u>	<u>Wt. %</u>	<u>CAS Number</u>	<u>Exposure Limits</u>
1,8-Dioxacycloheptadecan-9-one	95%	1725-01-5	None known

**OSHA Regulatory Status**

This material is classified as hazardous under OSHA regulations (skin and eye irritant)

### 4. First Aid Measures

**Eyes:** Flush eyes with large amounts of water for at least 15 minutes. If irritation persists, get medical attention.

**Skin Contact:** Flush with large amounts of water. Use soap if available. Remove contaminated clothing including shoes and wash before reuse. If irritation persists, seek medical attention.

**Ingestion:** If conscious, give milk or water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Inhalation:** Remove the victim to fresh air. If symptoms of respiratory distress occur, such as difficulty in breathing or shortness of breath, get medical attention.

### 5. Fire Fighting Measures

**Flash Point and Method:** 300°F (149°C) Closed Cup

**Flammable Limits:** Not available

**Auto-Ignition Temperature:** Not available

**Hazardous Combustion Products:** Burning liberates carbon monoxide, carbon dioxide and smoke.

**Extinguishing Media:** Foam, carbon dioxide or dry chemical.

**Fire Fighting Equipment:** Use self-contained breathing apparatus and full fire-fighting turn out gear (full Bunker gear).

### 6. Accidental Release Measures

Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Eliminate all sources of ignition. Ventilate area. Avoid runoff into storm sewers and ditches that lead to natural waterways. Absorb spill with an inert material (e.g., dry sand, earth or vermiculite), then place in a chemical waste container.

Notify appropriate authorities if required by regulations.

## 7. Handling and Storage

**Handling:** Avoid contact with skin and eyes. Avoid prolonged breathing of vapors. Wash thoroughly after handling. Ensure that containers are properly secured and under control before moving. Do not subject to unnecessarily high temperatures during processing.

**Storage:** Store in tightly closed and upright containers in a cool, dry and ventilated area. Store away from light, heat and sources of ignition.

## 8. Exposure Controls/Personal Protection

**Engineering Controls:** Provide general and/or local exhaust to minimize the release of the product to the workplace atmosphere.

**Respiratory Protection:** For most situations, no respiratory protection should be needed. However, if ventilation is inadequate, wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges or canisters.

**Skin Protection:** When gloves are necessary, wear oil resistant gloves, preferably, natural rubber gloves.

**Eye Protection:** Wear chemical splash goggles.

## 9. Physical and Chemical Properties

**Appearance:** Colorless to pale yellow viscous liquid

**Odor:** Musk, sweet, animalic, floral

**Physical State:** Viscous liquid

**Boiling Point:** 157-162°C / 5 mmHg

**Melting Point:** Not available

**pH:** Not available

**Specific Gravity (20/20°):** 0.980-0.989

**Refractive Index (20°):** 1.465-1.470

**Vapor Pressure:** 0.162 mmHg@25°C (calculated)

**Vapor Density (air=1):** Not available

**Solubility In Water:** Insoluble

**Octanol/Water Partition Coefficient (log  $K_{ow}$ ):** 4.9 (calculated)

**Evaporation Rate:** Not available

**Odor Threshold:** Not available

**Molecular Weight:** 256.38

**Molecular Formula:** C<sub>15</sub>H<sub>28</sub>O<sub>3</sub>

## 10. Stability and Reactivity

**Stability:** Stable under normal and anticipated storage and handling conditions.

**Conditions to Avoid:** Avoid temperatures near or above the flash point. Do not heat closed containers.

**Incompatibility:** Strong oxidizers.

**Reactivity:** No known reactivity with water.

**Hazardous Decomposition Products:** No known hazardous decomposition products generated on contact with water or likely to be formed under recommended storage conditions for periods up to one year.

**Hazardous Polymerization:** Will not occur.

## 11. Toxicological Information

**Acute Oral LD<sub>50</sub>:** > 5 g/kg (rat)

**Acute Dermal LD<sub>50</sub>:** > 5 g/kg (rabbit)

**Skin Irritation:** A 48-hour closed patch test conducted on humans at 10% in petrolatum resulted in no effects. Material was observed to be irritating when 5 g/kg was applied during a rabbit dermal LD50 study. 30% test material in acetone was irritating to guinea pig skin while 5 and 10% were not irritating.

**Skin Sensitization:** A human maximization test conducted at 10% in petrolatum resulted in no effects. A guinea pig maximization test conducted at concentrations up to 20% in acetone resulted in no sensitization effects.

**Phototoxicity:** 30% in acetone was weakly phototoxic in guinea pigs while concentrations of 5 and 10% resulted in no effects. A phototoxicity test conducted on guinea pigs at 50% in diethyl phthalate resulted in no effects.

## 12. Ecological Information

This product was found to be readily biodegradable under the conditions of the modified Sturm Test (carbon dioxide evolution).

## 13. Disposal Considerations

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Processing, use or contamination of this product may make this information inappropriate, inaccurate or incomplete.

Dispose of waste in accordance with local, state and federal laws and regulations. Contact your local or state environmental agency for specific rules.

## 14. Transport Information

### U.S. Department of Transportation (DOT)

**Proper shipping name:** Not Regulated - Chemicals N.O.S.

**Hazard Class:** Not listed

**UN Number:** Not listed

**Packing Group:** Not listed

## 15. Regulatory Information

**TSCA Status:** Listed on the TSCA Inventory

**CERCLA Reportable Quantity:** None

### SARA Title III:

**Section 302 Extremely Hazardous Substances:** None

### Section 311/312 Hazard Categories

Acute health	Yes
Chronic health	No
Fire	No
Reactive	No
Sudden Release of Pressure	No

**Section 313 Toxic Chemicals:** None

**Canadian Status:** Listed on the Canadian Domestic Substances List (DSL)

**Canadian WHMIS:** Controlled Product Hazard Class D2B

**European Union:** Listed on the European Inventory of Existing Commercial Chemical Substances (EINECS); EINECS No. 217-033-3

**Australia:** Listed on the Australian Inventory of Chemical Substances (AICS)

**Japan:** Listed on the Japanese Existing and New Chemical Substances list (ENCS); ENCS No. 5-3878

**Philippines:** Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

**China:** Listed on the Chinese Inventory of Existing Chemical Substances (IECSC)

## 16. Other Information

**HMIS Classification:**

Health: 1      Flammability: 1      Reactivity: 0

**NFPA Rating:**

Health: 1      Fire: 1      Reactivity: 0      Special: None

**MSDS Status:** Updated Sections 1, 2, 3

**Prepared by:** Corporate Safety & Regulatory Affairs

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