



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT CODE** A0247  
**PRODUCT NAME** SOTOLONE  
**SUPPLIER** Shanghai M & U International Trade Co., Ltd.  
Rm 1717, No 598 North NuJiang Road  
200333 Shanghai, China  
+86-21-32515501 32515502  
sales@mu-intel.com

**FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)**

### 2. HAZARD IDENTIFICATION:

#### Emergency Overview

#### OSHA Hazards

No known OSHA hazards

#### Other hazards which do not result in classification

Stench

Not a dangerous substance according to GHS

#### HMIS Classification

**Health hazard** 0

**Flammability** 0

**Physical hazards** 0

#### NFPA Rating

**Health hazard** 0

**Fire** 0

**Reactivity Hazard** 0

#### Potential Health Effects

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation

**Skin** May be harmful if absorbed through skin. May cause skin irritation

**Eyes** May cause eye irritation

**Ingestion** May be harmful if swallowed

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

**Synonyms** 4,5-Dimethyl-3-hydroxy-2,5-dihydrofuran-2-one

Formula	C6 H8 O3
Molecular Weight	128.12 g/mol
CAS-No	28664-35-9
EC-No	249-136-4

#### 4. FIRST-AID GUIDE:

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration

##### **In case of skin contact**

Wash off with soap and plenty of water

##### **In case of eye contact**

Flush eyes with water as a precaution

##### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water

#### 5. FIRE-FIGHTING GUIDE:

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

##### **Special protective equipment for firefighters**

Wear self contained breathing apparatus for firefighting if necessary

##### **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

#### 6. ACCIDENTAL RELEASE GUIDE:

##### **Personal precautions**

Avoid dust formation. Avoid breathing vapors, mist or gas

##### **Environmental precautions**

Do not let product enter drains

##### **Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal

#### 7. HANDLING AND STORAGE:

##### **Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place

## 8. EXPOSURE AND PERSONAL PROTECTION:

Contains no substances with occupational exposure limit values

### Personal protective equipment

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

#### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

#### Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

#### Hygiene measures

General industrial hygiene practice

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

### Appearance

Form	solid
Color	white

### Safety data

pH	no data available
Melting point/freezing point	Melting point/range: 26 - 29 °C (79 - 84 °F)
- lit	
Boiling point	184 °C (363 °F) - lit.
Flash point	> 110 °C (> 230 °F) - closed cup
Ignition temperature	no data available
Auto-ignition temperature	no data available

Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	no data available
Density	1.049 g/cm <sup>3</sup>
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapor density	no data available
Odor	Stench
Odor Threshold	no data available
Evaporation rate	no data available

## 10. STABILITY AND REACTIVITY:

### **Chemical stability**

Stable under recommended storage conditions

### **Possibility of hazardous reactions**

No data available

### **Conditions to avoid**

No data available

### **Materials to avoid**

Strong oxidizing agents, Strong bases

### **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides  
Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION:

### **Acute toxicity**

#### **Oral LD50**

No data available

#### **Inhalation LC50**

No data available

#### **Dermal LD50**

No data available

### **Other information on acute toxicity**

No data available

### **Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

**IARC**

No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

**ACGIH**

No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

**NTP**

No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

**OSHA**

No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

**Reproductive toxicity**

No data available

**Teratogenicity**

No data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

No data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation

**Ingestion**

May be harmful if swallowed

**Skin**

May be harmful if absorbed through skin. May cause skin irritation

**Eyes** May cause eye irritation

**Signs and Symptoms of Exposure**

Gastrointestinal disturbance, Nausea, Headache, Vomiting, Central nervous system depression, to the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

**Synergistic effects**

No data available

**Additional Information**

RTECS: Not available

**12. ECOLOGICAL INFORMATION:**

**Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**13. DISPOSAL RECOMMENDATIONS:**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company

**Contaminated packaging**

Dispose of as unused product

**14. TRANSPORTATION INFORMATION:**

**DOT (US)**

UN number: 3335 Class: 9

Proper shipping name: Aviation regulated solid, n.o.s. (3-Hydroxy-4,5-dimethylfuran-2(5H)-one)

Marine pollutant: No  
Poison Inhalation Hazard: No

**IMDG**

Not dangerous goods

**IATA**

UN number: 3335 Class: 9 Packing group: III  
Proper shipping name: Aviation regulated solid, n.o.s. (3-Hydroxy-4,5-dimethylfuran-2(5H)-one)

**15. REGULATORY INFORMATION:**

**OSHA Hazards**

No known OSHA hazards

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

**SARA 311/312 Hazards**

No SARA Hazards

**Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act

**Pennsylvania Right to Know Components**

3-Hydroxy-4,5-dimethylfuran-2(5H)-one	CAS-No 28664-35-9
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**New Jersey Right to Know Components**

3-Hydroxy-4,5-dimethylfuran-2(5H)-one	CAS-No 28664-35-9
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**California Prop 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

**16. OTHER INFORMATION:**

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy.

Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the MSDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the MSDS. The user should review these regulations to ensure full compliance.