

# MATERIAL SAFETY DATA SHEET

# 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0075

**PRODUCT NAME** GAMMA-NONALACTONE(C-18)

**SUPPLIER** Shanghai M & U International Trade Co., Ltd.

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

# 2. HAZARD IDENTIFICATION:

# **Emergency Overview**

## **OSHA Hazards**

No known OSHA hazards

#### **GHS** Classification

Skin irritation (Category 3) Eye irritation (Category 2B)

# **GHS** Label elements, including precautionary statements

Pictogram None

Signal word Warning

**Hazard statement(s)** 

H316 Causes mild skin irritation. H320 Causes eye irritation.

# **Precautionary statement(s)**

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

# **HMIS Classification**

Health hazard 1
Flammability 1
Physical hazards 0
NFPA Rating
Health hazard 1

# Reactivity Hazard 0 **Potential Health Effects**

Fire

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.

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Ingestion May be harmful if swallowed.

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Synonyms Nonanoic lactone

Gamma Nonalactone

Formula C9 H16 O2 Molecular Weight 156.22

CAS-No EC-No 104-61-0 203-219-1

# 4. FIRST-AID GUIDE:

## General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

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

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Flush eyes with water as a precaution.

## If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIRE-FIGHTING GUIDE:

# Conditions of flammability

Not flammable or combustible.

# Suitable extinguishing media

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

# Special protective equipment for fire-fighters

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**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### **Environmental precautions**

Do not let product enter drains.

# Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE:

## **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

# **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**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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

Safety glasses with side-shields conforming to EN166 Use equipment for eye protections tested and approved under appropriate government standards such as NOISH (US) or EN 166(EU).

## Skin and body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES:

# **Appearance**

Form Liquid

Color Colorless to pale yellow

Safety data

Boiling point 243
Flash point >200
Vapor pressure (mm Hg @20 °C) 0.02
Density @25 °C 0.960

Water solubility INSOLUBLE

Relative vapor density 1.0

Odor COCONUT-LIKE

#### 10. STABILITY AND REACTIVITY:

## **Chemical stability**

Stable under recommended storage conditions.

# Materials to avoid

Strong oxidizing agents, Strong bases.

# **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides.

### 11. TOXICOLOGICAL INFORMATION:

# **Acute toxicity**

Oral LD50

LD50 Oral - rat - 6,600 mg/kg

Dermal LD50

LD50 Dermal - rabbit - > 5,000 mg/kg

Skin corrosion/irritation

Skin - rabbit - Mild skin irritation - 24 h

Carcinogenicity

IARC:

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

# **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

Irritation. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. DISPOSAL RECOMMENDATIONS:

#### **Product**

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

# **Contaminated packaging**

Dispose of as unused product.

### 13. TRANSPORTATION INFORMATION:

DOT (US)

Not dangerous goods

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

## 14. 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

Nonan-4-olide CAS-No. Revision Date

104-61-0

New Jersey Right To Know Components

Nonan-4-olide CAS-No. Revision Date

104-61-0

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.

# **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.

Prepared by Shanghai M&U International