

## MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0283

**PRODUCT NAME** ISOBUTYL BUTYRATE

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

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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**Combustible Liquid

**GHS** Classification

Flammable liquids (Category 3)

Acute aquatic toxicity (Category 1)

GHS Label elements, including precautionary statements

Signal word Warning

**Hazard statement(s)** 

H226 Flammable liquid and vapor. H400 Very toxic to aquatic life.

**Precautionary statement(s)** 

P273 Avoid release to the environment.

**HMIS Classification** 

Health hazard 1 Flammability 2 Physical hazards 1

**NFPA Rating** 

Health hazard 1
Fire 2
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:

**Formula** C8 H16 O2 **Molecular Weight** 144.21g/mol

CAS-No EC-No Index-No. Concentration

539-90-2 208-729-8

#### 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:

### Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

# Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

## **Further information**

Use water spray to cool unopened containers.

#### 6. ACCIDENTAL RELEASE GUIDE:

#### **Personal precautions**

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

# **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations.

#### 7. HANDLING AND STORAGE:

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

Avoid inhalation of vapor or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

# **Conditions for safe storage**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### 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.

## **Eve protection**

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

## Skin and body protection

Impervious clothing, Flame retardant antistatic protective 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

Melting point (°C) no data available

Boiling point (°C) 156 Flash point (°F) Closed cup 114

Vapor pressure (mmHg@20°C) no data available

Density @25 °C 0.860

Water solubility INSOLUBLE

Relative vapor density 5

Odor ETHEREAL FRUITY, PUNGENT,

REMINISCENT OF PEAR, PINEAPPLE, AND

BANANA.

## 10. STABILITY AND REACTIVITY:

## **Chemical stability**

Stable under recommended storage conditions.

**Conditions to avoid** 

Heat, flames and sparks.

Materials to avoid

Strong oxidizing agents

# **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

#### 11. TOXICOLOGICAL INFORMATION:

# **Acute toxicity**

#### Oral LD50

LD50 Oral - rat - > 5,000 mg/kg LD50 Oral - rabbit - 9,520 mg/kg

#### **Skin corrosion/irritation**

Skin - rabbit

## 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

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

# Additional Information RTECS: ET5020000

# 12. ECOLOGICAL INFORMATION

## **Toxicity**

#### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

#### 13. DISPOSAL RECOMMENDATIONS:

#### **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. 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: 3272 Class: 3 Packing group: III

Proper shipping name: Esters, N.O.S

**IMDG** 

UN number: 3272 Class: 3 Packing group: III EMS-No: F-E, S-D

Proper shipping name: Esters, N.O.S.

**IATA** 

UN number: 3272 Class: 3 Packing group: III

Proper shipping name: Esters, N.O.S

#### 15. REGULATORY INFORMATION:

#### **OSHA Hazards**

Combustible Liquid

# **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

Fire Hazard

## **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

# Pennsylvania Right To Know Components

Isobutyl butyrate CAS-No. Revision Date

539-90-2

# **New Jersey Right To Know Components**

Isobutyl butyrate CAS-No. Revision Date

539-90-2

# 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.