



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT CODE** A0242  
**PRODUCT NAME** ISOAMYL ISOVALERATE  
**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

Combustible Liquid, Irritant.

#### GHS Classification

Flammable liquids (Category 4)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Specific target organ toxicity - single exposure (Category 3)

#### GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H227 Combustible liquid  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
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**

|                         |   |
|-------------------------|---|
| <b>Health hazard</b>    | 1 |
| <b>Flammability</b>     | 2 |
| <b>Physical hazards</b> | 0 |

**NFPA Rating**

|                          |   |
|--------------------------|---|
| <b>Health hazard</b>     | 1 |
| <b>Fire</b>              | 2 |
| <b>Reactivity Hazard</b> | 0 |

**Potential Health Effects**

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | May be harmful if inhaled. Causes respiratory tract irritation  |
| <b>Skin</b>       | May be harmful if absorbed through skin. Causes skin irritation |
| <b>Eyes</b>       | Causes eye irritation   |
| <b>Ingestion</b>  | May be harmful if swallowed                                     |

**3. COMPOSITION AND INFORMATION ON INGREDIENTS:****SYNONYM**

|                  |              |
|------------------|--------------|
| Formula          | C10 H20 O2   |
| Molecular Weight | 172.26 g/mol |
| CAS-No           | EC-No        |
| 659-70-1         | 211-536-1    |

**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**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

**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 fire-fighters**

Wear self contained breathing apparatus for firefighting 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**

Use personal protective equipment. 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

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). 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. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge

### **Conditions for safe storage**

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 multipurpose 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 EN 166 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, 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

pH

no data available

Melting point (°C)

no data available

Boiling point (°C)

194

Flash point (°F)

Closed cup 150

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 (mm Hg @20 °C)

no data available

Density @25 °C

0.855

Water solubility

INSOLUBLE

Partition coefficient:

n-octanol/ water

no data available

|                        |                   |
|------------------------|-------------------|
| Relative vapor density | >1                |
| Odor                   | FRUITY            |
| 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

Heat, flames and sparks

### Materials to avoid

Strong oxidizing agents

### 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

LD50 Oral - rabbit - 13,956 mg/kg

#### Inhalation LC50 -

No data available

#### Dermal LD50

No data available

### Other information on acute toxicity

No data available

### Skin corrosion/irritation

Skin - rabbit –

### Serious eye damage/eye irritation

No data available

**Respiratory or skin sensitization**

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)**

Inhalation - May cause respiratory irritation

**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. Causes respiratory tract irritation

**Ingestion** May be harmful if swallowed

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

**Eyes** Causes eye irritation

**Signs and Symptoms of Exposure**

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: NY1508000

**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**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material

**Contaminated packaging**

Dispose of as unused product

**14. TRANSPORTATION INFORMATION:**

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**15. REGULATORY INFORMATION:****OSHA Hazards**

Combustible Liquid, Irritant

**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, Acute Health Hazard

**Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act

**Pennsylvania Right to Know Components**

|                           |          |
|---------------------------|----------|
| 3-Methylbutyl isovalerate | CAS-No   |
|                           | 659-70-1 |

**New Jersey Right to Know Components**

|                           |          |
|---------------------------|----------|
| 3-Methylbutyl isovalerate | CAS-No   |
|                           | 659-70-1 |

**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.