

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE A0177

**PRODUCT NAME** ETHYL PROPIONATE

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

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sales@mu-intel.com

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

#### 2. HAZARD IDENTIFICATION:

**Physical State and Appearance** 

Liquid

**Emergency Overview** 

WARNING!

FLAMMABLE LIQUID AND VAPOR

VAPOR MAY CAUSE FLASH FIRE

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE

FOLLOWING ORGANS: SKIN

**Routes of Entry** 

Inhalation, Ingestion

**Potential Acute Health Effects** 

**Eves** 

Hazardous in case of eye contact (irritant)

Inflammation of the eye is characterized by redness, watering, and itching

Skin

Hazardous in case of skin contact (irritant)

Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering

Inhalation

Hazardous in case of inhalation (lung irritant)

Ingestion

Non-hazardous in the case of ingestion

**Potential Chronic Health Effects** 

**Carcinogenic Effects** 

This material is not known to cause cancer in animals or human

Additional information See Toxicological Information (section 11)

# **Medical Conditions Aggravated by Overexposure**

Repeated or prolonged exposure is not known to aggravate medical condition

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

SYNONYM PROPIONIC ACID ETHYL ESTER

Formula C5 H10 O2 CAS No EC No 105-37-3 203-291-4

### 4. FIRST-AID GUIDE:

# **Eye Contact**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately

#### **Skin Contact**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately

### Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately

# **Ingestion**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear

# 5. FIRE-FIGHTING GUIDE:

## Flammability of the Product

Product will burn

**Auto-ignition Temperature** 

439.9°C (823.8°F)

**Flash Points** 

Closed cup: 11.9°C (53.4°F)

**Flammable Limits Products of Combustion** 

LOWER: 1.9% UPPER: 11%

These products are carbon oxides (CO, CO2)

# **Fire Hazards in Presence of Various Substances**

Highly flammable in presence of open flames, sparks and static discharge, of heat, of oxidizing materials

# **Explosion Hazards in Presence of Various Substances**

# Risks of explosion of the product in presence of static discharge:

Highly flammable in presence of open flames, sparks and static discharge

Highly explosive in presence of open flames, sparks and static discharge

# Risks of explosion of the product in presence of mechanical impact:

No

# **Fire Fighting Media and Instructions**

#### **SMALL FIRE**

Use DRY chemical powder

#### LARGE FIRE

Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build—up, auto ignition or explosion

# **Protective Clothing (Fire)**

Be sure to use an approved/certified respirator or equivalent

# **Special Remarks on Fire Hazards**

Not available

# **Special Remarks on Explosion Hazards**

Not available

#### 6. ACCIDENTAL RELEASE GUIDE:

## Small Spill and Leak

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container

# **Large Spill and Leak**

Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed

# **Spill Kit Information**

The following EMD Chemicals Inc. SpillSolv ® absorbent is recommended for this product: SX1330 Solvent Treatment Kit

# 7. HANDLING AND STORAGE:

#### Handling

Keep away from heat, sparks and flame. Keep container closed. Do not get in eyes, on skin, or on clothing. Do not ingest. Avoid breathing vapors or spray mists

# Storage

Keep container in a cool, well-ventilated area

### 8. EXPOSURE AND PERSONAL PROTECTION:

## **Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work—station location

### **Personal Protection**

**Eyes** Splash goggles

**Body** Lab coat

**Respiratory** Vapor respirator, be sure to use an approved/certified respirator or

equivalent. Wear appropriate respirator when ventilation is inadequate.

**Hands** Gloves

Feet Not applicable

**Protective Clothing** 

# Personal Protection in Case of a Large Spill

Splash goggles, Full suit, Vapor respirator, Boots, Gloves, A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product

# **Exposure Limits**No data available

# 9. PHYSICAL AND CHEMICAL PROPERTIES:

Odor Pineapple
Color Colorless
Physical State and Appearance Liquid

Molecular Weight 102.15 g/mole Molecular Formula C5 H10 O2 рН Not available 98.9°C (210°F) **Boiling/Condensation Point** Melting/Freezing Point -72.7°C (-98.9°F) Specific Gravity 0.9 (Water = 1)Vapor Pressure Not available Vapor Density 3.5 (Air = 1)Odor Threshold Not available **Evaporation Rate** Not available LogKow Not available

Solubility Partially soluble in water

#### 10. STABILITY AND REACTIVITY:

## **Stability and Reactivity**

The product is stable

# **Conditions of Instability**

Not available

# **Incompatibility with Various Substances**

Reactive with oxidizing agents

# Rem/Incompatibility

Not available

# **Hazardous Decomposition Products**

Carbon oxides (CO, CO2)

# **Hazardous Polymerization**

Will not occur

#### 11. TOXICOLOGICAL INFORMATION:

### **RTECS Number**

Ethyl Propionate, For Synthesis

## **Toxicity**

Acute oral toxicity (LD50): 8732 mg/kg [Rat]

## **Chronic Effects on Humans**

Not available

### **Acute Effects on Humans**

Hazardous in case of eye contact (irritant), Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (irritant), Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation (lung irritant), Non-hazardous in the case of ingestion

# **Synergetic Products (Toxicologically)**

Not available

# **Irritancy**

Draize Test (Rabbit):

Skin: 500mg/24h. Reaction: Moderate Eye: 100 mg mod, time not available

# Sensitization

Not available.

# **Carcinogenic Effects**

This material is not known to cause cancer in animals or humans

# **Toxicity to Reproductive System**

Not available

### **Teratogenic Effects**

Not available

### **Mutagenic Effects**

Not available

#### 12. ECOLOGICAL INFORMATION:

#### **Ecotoxicity**

Not available

#### **BOD5** and COD

Not available

# **Toxicity of the Products of Biodegradation**

The product itself and its products of degradation are not toxic

#### 13. DISPOSAL RECOMMENDATIONS:

#### **EPA Waste**

D001

#### **Number Treatment**

Incineration, fuels blending or recycle. Contact your local permitted waste disposal site (TSD) for permissible treatment sites. Always contact a permitted waste disposal (TSD) to assure

compliance with all current local, state, and Federal Regulations

### 14. TRANSPORTATION INFORMATION:

## DOT (US)

UN number: 1195 Class: 3 Packing group: II Proper shipping name: Ethyl propionate

Reportable Quantity (RQ): Marine pollutant: No

Poison Inhalation Hazard: No

#### **IMDG**

UN number: 1195 Class: 3 Packing group: II EMS-No: F-E, S-D

Proper shipping name: ETHYL PROPIONATE

Marine pollutant: No

### **IATA**

UN number: 1195 Class: 3 Packing group: II Proper shipping name: Ethyl propionate

# 15. REGULATORY INFORMATION:

## **U.S. Federal Regulations**

TSCA 8(b) inventory: ETHYL PROPIONATE SARA 302/304/311/312 extremely

hazardous substances: No products were found

SARA 302/304 emergency planning and notification: No products were found

SARA 302/304/311/312 hazardous chemicals: ETHYL PROPIONATE

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: ETHYL

PROPIONATE: Fire Hazard, Immediate (Acute)

Health Hazard

SARA 313 toxic chemical notification and release reporting: No products were found

Clean Water Act (CWA) 307: No products were found

Clean Water Act (CWA) 311: No products were found

Clean air act (CAA) 112 accidental release prevention: No products were found

Clean air act (CAA) 112 regulated flammable substances: No products were found

Clean air act (CAA) 112 regulated toxic substances: No products were found

# WHMIS (Canada)

CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F)

Class D-2B: Material causing other toxic effects (TOXIC)

CEPA DSL: ETHYL PROPIONATE

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

# **International Regulations**

# **EINECS**

ETHYL PROPIONATE 203-291-4

DSCL (EEC)

R11- Highly flammable

### **International**

Australia (NICNAS): ETHYL PROPIONATE

Lists

Japan (MITI): ETHYL PROPIONATE Japan (MOL): ETHYL PROPIONATE Korea (TCCL): ETHYL PROPIONATE

Philippines (RA6969): ETHYL PROPIONATE China: No products were found

**State Regulations** 

Pennsylvania RTK: ETHYL PROPIONATE: (generic environmental hazard)

Massachusetts RTK: ETHYL PROPIONATE

New Jersey: ETHYL PROPIONATE

California prop. 65: No products were found

### 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