

**1. PRODUCT AND COMPANY IDENTIFICATION:**

<b>PRODUCT CODE</b>	A0177
<b>PRODUCT NAME</b>	ETHYL PROPIONATE
<b>SUPPLIER</b>	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:**

**Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Flammable liquids (Category 2), H225

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

For the full text of the H-Statements mentioned in this Section, see Section 16

**GHS Label elements, including precautionary statements**

Pictogram	
Signal word	Danger

**Hazard statement(s)**

H225 Highly flammable liquid and vapor

H315 Causes skin irritation

H319 Causes serious eye irritation

**Precautionary statement(s)**

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/lighting/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P264	Wash skin thoroughly after handling

P280	Wear protective gloves/ protective clothing/eye protection/face protection
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321	Specific treatment (see supplemental first aid instructions on this label)
P332 + P313	If skin irritation occurs: Get medical advice/attention
P337 + P313	If eye irritation persists: Get medical advice/ attention
P362	Take off contaminated clothing and wash before reuse
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P403 + P235	Store in a well-ventilated place; Keep cool
P501	Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC) or not covered by GHS**

None

**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, CO<sub>2</sub>)

### **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**

<b>Eyes</b>	Splash goggles
<b>Body</b>	Lab coat
<b>Respiratory</b>	Vapor respirator, be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
<b>Hands</b>	Gloves
<b>Feet</b>	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
pH	Not available
Boiling/Condensation Point	98.9°C (210°F)
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:**

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H225	Highly flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
Skin Irrit.	Skin irritation

**HMIS Rating**

Health hazard	2
Chronic Health Hazard	
Flammability	3
Physical Hazard	0

**NFPA Rating**

Health hazard	2
Fire Hazard	3
Reactivity Hazard	0

**Other Information:**



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