

**1. PRODUCT AND COMPANY IDENTIFICATION:**

<b>PRODUCT CODE</b>	N0236
<b>PRODUCT NAME</b>	NATURAL ETHYL VALERATE
<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 3), H226

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

**GHS Label elements, including precautionary statements**

Pictogram



Signal word

Warning

Hazard statement(s)

H226 Flammable liquid and vapor

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

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.

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:

Chemical characterization	Natural product
Formula	C7 H14 O2
Molecular Weight	130.18 g/mol
CAS-No	539-82-2
EC-No	208-726-1

### 4. FIRST-AID GUIDE:

#### **Description of first aid measures**

##### **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

##### **Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11

##### **Indication of any immediate medical attention and special treatment needed**

No data available

### 5. FIRE-FIGHTING GUIDE:

#### **Extinguishing media**

##### **Suitable extinguishing media**

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

**Special hazards arising from the substance or mixture**

No data available

**Advice for firefighters**

Wear self contained breathing apparatus for firefighting if necessary

**Further information**

Use water spray to cool unopened containers

**6. ACCIDENTAL RELEASE GUIDE:****Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8

**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)

**Reference to other sections**

For disposal see section 13

**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 buildup of electrostatic charge. For precautions see section 2

**Conditions for safe storage, including any incompatibilities**

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

**Specific end use(s)**

No other specific uses are stipulated

**8. EXPOSURE AND PERSONAL PROTECTION:****Components with workplace control parameters**

Contains no substances with occupational exposure limit values

**Exposure controls**

### **Appropriate engineering controls**

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

### **Personal protective equipment**

#### **Eye/face 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 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

#### **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

#### **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)

#### **Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains

## **9. PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance Form	clear, liquid
Color	colorless
Odor	no data available
Odor Threshold	no data available
pH	no data available
Melting point/freezing point	no data available
Initial boiling point and boiling range	142 - 145 °C (288 - 293 °F) at 1,013 hPa (760 mmHg)
Flash point	34 °C (93 °F) - closed cup
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapor pressure	no data available

Vapor density	no data available
Relative density	0.874 g/cm <sup>3</sup>
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

**Other safety information**

No data available

**10. STABILITY AND REACTIVITY:**

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions

**Possibility of hazardous reactions**

Vapors may form explosive mixture with air

**Conditions to avoid**

Heat, flames and sparks

**Incompatible materials**

Strong oxidizing agents, Strong bases

**Hazardous decomposition products**

Other decomposition products - no data available

In the event of fire: see section 5

**11. TOXICOLOGICAL INFORMATION:**

**Acute toxicity**

No data available

Inhalation: no data available

Dermal: no data available

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitisation**

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

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: Not available

**12. ECOLOGICAL INFORMATION:**

**Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

No data available

**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. Contact a licensed professional waste disposal service to dispose of this material

**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.

Reportable Quantity (RQ):

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG**

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

Proper shipping name: ESTERS, N.O.S. (Ethyl valerate)

Marine pollutant: No

**IATA**

UN number: 3272 Class: 3 Packing group: III

Proper shipping name: Esters, n.o.s. (Ethyl valerate)

**15. REGULATORY INFORMATION:**

REACH No



A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline

### **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**

Ethyl valerate	CAS-No
	539-82-2

### **New Jersey Right to Know Components**

Ethyl valerate	CAS-No
	539-82-2

### **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.