



# Safety Data Sheet 29 CFR 1910.1200

Trade Name: Ethyl 3-ethoxypropionate

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## SDS REPORT

Guangdong Easource New Material Co., Ltd.  
No.3 , Xingbang Road, Yinghong Town, Yingde City, Guangdong

**SDS Report No.** : SDS2016041301E  
**Compilation Date** : Apr 13, 2019  
**Sample Name** : Ethyl 3-ethoxypropionate  
**End Use** : Automotive coating, marine coating and  
microelectronics industry (As diluents)  
**Composition/Ingredient  
of The Sample** : See Section 3 on the SDS  
**Service Requested** : Safety Data Sheet (SDS) for the sample with  
submitted composition.  
**Summary** : As per request, the contents and formats of  
the SDS are prepared in according with US  
Regulations Relating to Labor 29 CFR  
1910.1200(g), and is provided per attached.

Signed for and on behalf of  
Technical Center:

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Jesse Xu  
Toxicology engineer

## 1 Identification

• **Product identifier**

• **Trade name:** *Ethyl 3-ethoxypropionate*

• **Recommended use of the chemical and restrictions on use**

• **Application of the substance/ mixture:** *Automotive coating, marine coating and microelectronics industry (As diluents).*

• **Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier:**

*Guangdong Easource New Material Co., Ltd.*

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**Email:** *susan.gu@gdeasource.com*

• **Further information obtainable from:**

*Guangdong Easource New Material Co., Ltd.*

• **Emergency telephone number**

**Li Xing**

**Tel:** + (086) 13438324624

## 2 Hazard(s) identification

• **Classification of the substance or mixture:**



**GHS02 Flame**

*Flam. Liq. 3 H226 Flammable liquid and vapour*

• **Information concerning particular hazards for human and environment:**

*The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).*

• **Classification system:**

*The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200) and extended by company and literature data.*

• **Label elements**

• **Labeling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**

• **Hazard pictograms:**



GHS02

• **Signal word:** *Warning*

• **Hazard-determining components of the labeling:** *Ethyl 3-ethoxypropionate*

• **Hazard statements:**

*H226 Flammable liquid and vapour*

• **Precautionary statement:**

P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
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 chemical, alcohol-resistant foam, powder, carbon dioxide and water spray for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

• **Hazards not otherwise classified (HNOC):** No further relevant information available.

### **3 Composition/information on ingredients**

**Chemical characterization:** Substance(s)

• **CAS No. Description:** 763-69-9 Ethyl 3-ethoxypropionate

• **Remark:** This product contains substance Ethyl 3-ethoxypropionate (CAS No.: 763-69-9) 98.9% by weight.

### **4 First aid measures**

• **Description of first aid measures**

**After inhalation:** Supply with fresh air. Call doctor/physician if you feel unwell.

**After skin contact:** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

**After eye contact:** Wash eye with water. If eye irritation happens: Get medical advice/attention.

**After swallowing:** Rinse out mouth with water. Call a POISON CENTER or doctor/physician if feel unwell.

**Information for doctor**

• **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

### **5 Fire-fighting measures**

• **Suitable extinguishing agents:** Dry chemical, alcohol-resistant foam, powder, carbon dioxide and water spray.

**For safety reasons unsuitable extinguishing agents:** Water with full jet.

• **Special hazards arising from the substance or mixture:** No further relevant information available.

• **Special protective equipment and precaution for firefighters**

**Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

### **6 Accidental release measures**

• **Personal precautions, protective equipment and emergency procedures:**

Ensure adequate ventilation.

Keep ignition source away.

Avoid breathing vapors, mist or gas.

Use respiratory protective device against the effects of vapors/mist/ gas.

Avoid contact with skin and eyes.

• **Environmental precautions:**

Do not allow the product to enter sewers/surface or ground water.

Inform respective authorities in case of seepage into water course or sewages system.

Do not allow to enter sewers/surface or ground water.

• **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material l (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Dispose contaminated material as waster according to item 13.

## **7 Handling and storage**

• **Handling**

• **Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Keep container tightly closed.

Keep away from flame and ignition source.

Avoid breathing vapors, mist or gas.

Use respiratory protective device against the effects of vapors/mist/ gas.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid contact with skin and eyes.

• **Information about fire and explosion protection:**

Keep away from heat/sparks/open flames/hot surfaces. -No smoking.

Ground/bond container and receiving equipment.

Take precautionary measures against static discharge.

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

• **Requirements to be met by storerooms and receptacles:**

Store in a cool, keep container tightly closed in a dry and well-ventilation place.

• **Information about storage in one common storage facility:**

Keep away from combustible materials and oxides.

• **Further information about storage conditions:**

Store in cool, dry conditions in well-ventilation condition.

## **8 Exposure controls/personal protection**

• **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• **Additional information:** The lists that were valid during the creation were used as basis.

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• **Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of work.

Do not eat, drink or smoke when using this product.

See section 7 for information about design of technical facilities.

- **Personal protective equipment:**
- **Breathing equipment:** Suitable respiratory protective device recommended.
- **Additional information:** The lists valid during the marking were used as basis.
- **Protection of hands:**



#### Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As composition, the resistance of the glove material can't be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



#### Safety glasses

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **Appearance:**

<b>Form</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	Ester aroma
<b>Odor threshold</b>	Data not available
<b>pH-value</b>	Data not available
<b>Change in condition</b>	
<b>Melting point/melting range</b>	-49.99 °C at 1013hPa
<b>Boiling point</b>	169 °C-lit.
<b>Freezing point</b>	Data not available
<b>Flash point:</b>	58 °C
<b>Flammability (solid, gas)</b>	Data not available
<b>Decomposition temperature</b>	Data not available
<b>Self-ignition</b>	377 °C at 1013hPa

· <b>Danger of explosion</b>	Product is not explosive. However, formation of explosive air/vapour mixture are possible.
· <b>Explosion limits</b>	
<b>Lower:</b>	9.8% (V)
<b>Upper:</b>	1.05% (V)
· <b>Oxidizing properties</b>	Data not available
· <b>Vapor pressure</b>	2.3 hPa at 20 °C
· <b>Density</b>	0.95 g/mL at 25 °C
· <b>Relative density</b>	5.03(Air=1)
· <b>Vapor density</b>	Data not available
· <b>Evaporation rate</b>	Data not available
· <b>Solubility in/Miscibility with</b>	
<b>Water</b>	54.1 g/l (Water=20 °C)
· <b>Partition coefficient (n-octanol/water)</b>	Log Pow:1.47
· <b>Viscosity</b>	
<b>Dynamic</b>	Data not available
<b>Kinematic</b>	Data not available
· <b>Other information</b>	Data not available

## 10 Stability and reactivity

- **Reactivity:** No decomposition if used according to specification.
- **Chemical stability:** Stable under recommended storage conditions.
- **Possibility of hazardous reactions:** No further relevant information available.
- **Conditions to avoid:** Heat, sparks, open flames and hot surfaces.
- **Incompatible materials:** Flammable substance.
- **Hazardous decomposition products:** No further relevant information available.

## 11 Toxicological information

- **Acute toxicity**
- **LD/LC50 values that are relevant for classification:**

CAS No.: 763-69-9 Ethyl 3-ethoxypropionate		
Rat	LD50-oral	5000 mg/kg
Rabbit	LD50-skin	10 mL/kg

- **Primary irritant effect**
- **Skin corrosion/irritation:** Irritating possible.
- **Serious eyes damage/irritation:** Irritating possible.
- **Sensitization:** Sensitization possible.

### Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparation.

- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer):** None of the ingredients is listed.
- **NTP (National Toxicology Program):** None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability:** No further relevant information available.
  - **Bio-accumulative potential:** No further relevant information available.
- Mobility in soil:** No further relevant information available.
- **Additional ecological information**
  - **Other adverse effects:** No further relevant information available.

## 13 Disposal consideration

- **Waste treatment methods**
- **Recommendation:** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Un-cleaned packaging**
- **Recommendation:** Dispose of contents/container in according to the local/regional/national/ international regulation.

## 14 Transport information

- **UN-Number**

**DOT, IMDG, IATA** UN3272

- **UN proper shipping name**

**DOT, IMDG, IATA** ESTERS, N.O.S. (Ethyl 3-ethoxypropionate)

- **Transport hazard class (es)**

**DOT, IMDG, IATA**



**Class** 3 Flammable liquid

**Label** 3

- **Packing group**

**DOT, IMDG, IATA** III

- **Environmental hazardous**

**Marine pollution** No

- **Special precautions for user** Warning: Flammable liquid

- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

- **UN "Model Regulation":**

UN3272 ESTERS, N.O.S. (Ethyl 3-ethoxypropionate), 3, III

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):** None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):** None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act):** All the ingredients are listed.

• **Proposition 65**

- **Chemicals known to cause cancer:** None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:** None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:** None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:** None of the ingredients is listed.
- **EPA (Environmental Protection Agency):** None of the ingredients is listed.
- **TLV (Threshold Limit Value established by ACGIH):** None of the ingredients is listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health):** None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration):** None of the ingredients is listed.
- **National regulations**
- **Water hazard class:** Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water.

## 16 Other information

**Relevant phrases:**

H226 Flammable liquid and vapour

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**The contents and format of this SDS are in accordance with 29 CFR 1910.1200(g).**

**DISCLAIMER OF LIABILITY:**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

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• **Abbreviations and acronyms:**

**DOT:** Department of Transportation

**IMDG:** International Maritime Code for Dangerous Goods.

**IATA:** International Air Transport Association

**LD50:** Lethal dose, 50 percent

**LC50:** Lethal concentration, 50 percent

**OSHA:** Occupational Safety & Health Administration

**ACGIH:** American Conference of Governmental Industrial Hygienists

**NIOSH:** National Institute for Occupational Safety and Health

**Flam. Liq. 3:** Flammable liquid, hazard category 3

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End of SDS