

**1. PRODUCT AND COMPANY IDENTIFICATION:**

**PRODUCT CODE** A0003  
**PRODUCT NAME** ALLYL CAPROATE (ALLYL HEXANOATE)  
**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:**

**Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed  
Acute Tox. 3 H311 Toxic in contact with skin  
Acute Tox. 3 H331 Toxic if inhaled

H227 Combustible liquid

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Toxic  
Toxic by inhalation



Harmful  
Harmful in contact with skin and if swallowed



Dangerous for the environment  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

Not applicable

**Label elements**

**GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS)

## Hazard pictograms



GHS06

## Signal word

Danger

## Hazard-determining components of labeling

allyl caproate

## Hazard statements

Combustible liquid

Toxic if swallowed, in contact with skin or if inhaled

## Precautionary statements

Keep away from flames and hot surfaces. – No smoking

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

If swallowed: Immediately call a poison center/doctor

Specific treatment (see on this label)

Store locked up

Dispose of contents/container in accordance with local/regional/national/international regulations

## Classification system:

### NFPA ratings (scale 0 - 4)



Health = 2

Fire = 2

Reactivity = 0

### HMIS-ratings (scale 0 - 4)



Health = 2

Fire = 2

Reactivity = 0

## Other hazards

### Results of PBT and vPvB assessment

#### PBT

Not applicable

#### vPvB

Not applicable

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

**Chemical characterization: Substances**

**CAS No Description**

123-68-2 allyl caproate

**Identification number(s)**

**EC number**

204-642-4

**4. FIRST-AID GUIDE:**

**Description of first aid measures**

**General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident

**After inhalation**

In case of unconsciousness place patient stably in side position for transportation

**After skin contact**

Immediately wash with water and soap and rinse thoroughly

**After eye contact**

Rinse opened eye for several minutes under running water

**After swallowing**

Immediately call a 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 GUIDE:**

**Extinguishing media**

**Suitable extinguishing agents**

CO<sub>2</sub> or extinguishing powder

Fight larger fires with alcohol resistant foam

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

No further relevant information available

**Advice for firefighters**

**Protective equipment**

No special measures required

**Additional information**

Cool endangered receptacles with water spray

Collect contaminated fire fighting water separately. It must not enter the sewage system

**6. ACCIDENTAL RELEASE GUIDE:**

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

Not required

**Environmental precautions**

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

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

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

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

Dispose contaminated material as waste according to item 13

**Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

**7. HANDLING AND STORAGE:**

**Precautions for safe handling**

No special precautions are necessary if used correctly

**Information about protection against explosions and fires**

No special measures required

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

**Storage**

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

No special requirements

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

Not required

**Further information about storage conditions**

None

**Specific end use(s)**

No further relevant information available

## 8. EXPOSURE AND PERSONAL PROTECTION:

### **Additional information about design of technical systems:**

No further data; see item 7

### **Control parameters**

#### **Components with limit values that require monitoring at the workplace**

Not required.

### **Additional information**

The lists that were valid during the creation were used as a basis

### **Exposure controls**

#### **Personal protective equipment**

##### **General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work  
Avoid contact with the skin  
Avoid contact with the eyes and skin

##### **Breathing equipment**

Not required

##### **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 should be based 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

##### **Penetration time of glove material**

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

##### **Eye protection**

Goggles recommended during refilling

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

<b>Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Appearance</b>	
<b>Form</b>	Liquid
<b>Color</b>	Colorless to pale yellow
<b>Odor</b>	Fruity, Pineapple
<b>Odor threshold</b>	Not determined
<b>pH-value</b>	Not determined
<b>Change in condition</b>	
<b>Melting point/Melting range</b>	Undetermined
<b>Boiling point/Boiling range</b>	185 °C (365 °F)
<b>Flash point</b>	66 °C (151 °F)
<b>Flammability (solid, gaseous)</b>	Not applicable
<b>Ignition temperature</b>	
<b>Decomposition temperature</b>	Not determined
<b>Auto igniting</b>	Not determined
<b>Danger of explosion</b>	Not determined
<b>Explosion limits</b>	
<b>Lower</b>	Not determined
<b>Upper</b>	Not determined
<b>Vapor pressure</b>	Not determined
<b>Density at 20 °C (68 °F)</b>	0.893 g/cm <sup>3</sup> (7.452 lbs/gal)
<b>Relative density</b>	Not determined
<b>Vapor density</b>	Not determined
<b>Evaporation rate</b>	Not determined
<b>Solubility in / Miscibility with</b>	
<b>Water</b>	Not miscible or difficult to mix
<b>Partition coefficient (n-octanol/water)</b>	Not determined
<b>Viscosity</b>	
<b>Dynamic</b>	Not determined
<b>Kinematic</b>	Not determined
<b>Organic solvents</b>	0.0 %
<b>Other information</b>	No further relevant information available

## 10. STABILITY AND REACTIVITY:

### Reactivity

#### Chemical stability

#### Thermal decomposition / conditions to be avoided

No decomposition if used according to specifications

#### Possibility of hazardous reactions

No dangerous reactions known

**Conditions to avoid**

No further relevant information available

**Incompatible materials**

No further relevant information available

**Hazardous decomposition products**

No dangerous decomposition products known

**11. TOXICOLOGICAL INFORMATION:****Information on toxicological effects****Acute toxicity****LD/LC50 values that are relevant for classification****123-68-2 allyl caproate**

Oral	LD50	218 mg/kg (rat)
Dermal	LD50	300 mg/kg (rabbit)

**Primary irritant effect**

On the skin                      Irritant to skin and mucous membranes

On the eye                        No irritating effect

**Sensitization**

No sensitizing effects known

**Additional toxicological information****Carcinogenic categories****IARC (International Agency for Research on Cancer)**

Substance is not listed

**NTP (National Toxicology Program)**

Substance is not listed

**OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed

**12. ECOLOGICAL INFORMATION:****Toxicity****Aquatic toxicity****123-68-2 allyl caproate**

EC50	2 mg/kg (daphnia)
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**Persistence and degradability**                      No further relevant information available**Bioaccumulative potential**                                No further relevant information available**Mobility in soil**    No further relevant information available**Ecotoxicological effects****Remark**    Very toxic for fish

### Additional ecological information

#### General notes

Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground  
Also poisonous for fish and plankton in water bodies  
Very toxic for aquatic organisms

#### Results of PBT and vPvB assessment

##### PBT

Not applicable

##### vPvB

Not applicable

#### Other adverse effects

No further relevant information available

### 13. DISPOSAL RECOMMENDATIONS:

#### Waste treatment methods

##### Recommendation

Must not be disposed of together with household garbage  
Do not allow product to reach sewage system

#### Uncleaned packaging







##### Recommendation

Disposal must be made according to official regulations

### 14. TRANSPORTATION INFORMATION:

<b>UN-Number</b>	
<b>DOT, ADR, IMDG, IATA</b>	UN2810
<b>UN proper shipping name</b>	
<b>DOT</b>	Toxic, liquids, organic, n.o.s. (allyl caproate)
<b>ADR</b>	2810 Toxic, liquids, organic, n.o.s. (Allyl caproate), ENVIRONMENTALLY HAZARDOUS 2810 GI FTI GER ORGANI SCHER FLÜSSI GER S T O F F , N . A . G . ( A l l y l h e x a n o a t ) , UMWELTGEFÄHRDEND
<b>IMDG</b>	TOXIC LIQUID, ORGANIC, N.O.S. (Allyl caproate), MARINE POLLUTANT
<b>IATA</b>	TOXIC LIQUID, ORGANIC, N.O.S. (Allyl caproate)



<b>Transport hazard class(es)</b>	
<b>DOT</b>	
	
<b>Class</b>	6.1 Toxic substances
<b>Label</b>	6.1
<hr/>	
<b>ADR</b>	
 	
<b>Class</b>	6.1 (T1) Toxic substances
<b>Label</b>	6.1
<hr/>	
<b>IMDG</b>	
 	
<b>Class</b>	6.1 Toxic substances
<b>Label</b>	6.1
<hr/>	
<b>IATA</b>	
	
<b>Class</b>	6.1 Toxic substances
<b>Label</b>	6.1
<hr/>	
<b>Packing group</b>	
<b>DOT, ADR, IMDG, IATA</b>	III
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes Symbol (fish and tree)
<b>Special marking (ADR)</b>	Symbol (fish and tree)
<b>Special precautions for user</b>	Warning: Toxic substances
<b>Danger code (Kemler)</b>	60
<b>EMS Number</b>	F-A,S-A
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	
	Not applicable
<b>Transport/Additional information:</b>	
<b>DOT</b>	
<b>Quantity limitations</b>	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
<hr/>	
<b>ADR</b>	
<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<hr/>	

<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>UN "Model Regulation"</b>	UN2810, Toxic, liquids, organic, n.o.s. (Allyl caproate) ENVIRONMENTALLY HAZARDOUS, 6.1, III

## 15. REGULATORY INFORMATION:

### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **Sara**

#### **Section 355 (extremely hazardous substances)**

Substance is not listed

#### **Section 313 (Specific toxic chemical listings)**

Substance is not listed

#### **TSCA (Toxic Substances Control Act)**

Substance is listed

#### **Proposition 65**

Chemicals known to cause cancer

Substance is not listed

#### **Chemicals known to cause reproductive toxicity for females**

Substance is not listed

#### **Chemicals known to cause reproductive toxicity for males**

Substance is not listed

#### **Chemicals known to cause developmental toxicity**

Substance is not listed

#### **Carcinogenic categories**

#### **EPA (Environmental Protection Agency)**

Substance is not listed

#### **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed

#### **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed

#### **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS)

### **Hazard pictograms**



GHS06

### **Signal word**

Danger

### **Hazard-determining components of labeling**

allyl caproate

### **Hazard statements**

Combustible liquid

Toxic if swallowed, in contact with skin or if inhaled

### **Precautionary statements**

Keep away from flames and hot surfaces. – No smoking.

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

If swallowed: Immediately call a poison center/doctor

Specific treatment (see on this label)

Store locked up

Dispose of contents/container in accordance with local/regional/national/international regulations

### **Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out

## **16. OTHER INFORMATION:**

The information in this SDS 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 SDS. 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 SDS. The user should review these regulations to ensure full compliance.

**Prepared By:** M&U International LLC

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