Product: EC-234 MSDS ID: R1146 Revised Date: 06/10/15 Replaces Date: 12/16/13

## 1. General Information

R1146
EC-234
Ester
Designer Molecules, Inc.
10080 Willow Creek Rd.
San Diego, CA 92131
858-348-1122

Emergency phone number (spill, leak, fire, exposure or accident): US Domestic 800-424-9300 (CHEMTREC) International +1 703-527-3887

## 2. Hazards Identification

#### **EMERGENCY OVERVIEW:**

**OSHA Hazards:** Harmful by ingestion, Irritant

#### **GHS Classification:**

Acute toxicity, Oral (Category 4) Skin Irritation (Category 2) Eye Irritation (Category 2A) Specific target organ toxicity – single exposure (Category 3)

#### GHS Label Elements, including precautionary statements:



Signal Word: Warning

H302: Harmful if swallowed.H315: Causes skin irritation.H319: Causes serious eye irritation.H335: May cause respiratory irritation.

 

 P261:
 Avoid breathing dust/fume/gas/mist/vapors/spray.

 P305 + P351 + P338:
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### HMIS Classification:

Health Hazard:	2
Flammability:	0
Physical Hazards:	0

#### **NFPA Rating:**

Health Hazard:	2
Fire:	0
Reactivity Hazard:	0

#### POTENTIAL HEALTH EFFECTS:

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INHALATION: EYE CONTACT: SKIN CONTACT: SWALLOWING:	May be harmful if inhaled. Causes respiratory tract irritation. Causes eye irritation Harmful if absorbed through skin. Causes skin irritation. Harmful if swallowed.	
3. Composi	tion Information	

Synonyms: 4-Acetoxyphenethyl acrylate

COMPONENT	CAS#	CONCENTRATION
2-Propenoic acid, 2-[4-(acetoxy)phenyl]ethyl ester	926305-16-0	95%

#### First Aid Measures 4.

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SWALLOWING: Do not induce vomiting. Wash out mouth with water provided the person if fully conscious. Get immediate medical attention.

SKIN CONTACT: Wash area with soap and water. Remove contaminated clothing and shoes. Wash or clean before reuse.

INHALATION: Remove person to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Flush with water for 15 minutes. Get immediate medical attention.

### NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

#### 5. Fire and Explosion Hazard Data

FLASH POINT (method): >500°F / >260°C, (closed cup)

**AUTOIGNITION:** Not determined **EXTINGUISHER METHOD:** CO<sub>2</sub>, foam, dry chemical

### SPECIAL FIRE-FIGHTING PROCEDURES:

Fire fighters should wear NIOSH/MSHA approved pressure demand self-contained breathing apparatus. Decontaminate or discard any clothing that may contain chemical residues.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None.

# 6. Accidental Release Measures

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Promptly absorb spill. Remove sources of ignition. Cover drains to prevent entry into waterways. Wear personal protective equipment (clothing and gloves) when handling spilled materials.

## **PERSONAL PRECAUTIONS:**

Wear suitable NIOSH-approved protective equipment.

## **ENVIRONMENTAL PRECAUTIONS:**

May be toxic to aquatic life. Avoid runoff to waterways and sewers.

#### Handling and Storage 7.

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

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For small amounts, wipe off with damp sponge. For large amounts, absorb on sand or vermiculite. Wipe off and dispose of into proper waste disposal containers.

#### WASTE DISPOSAL METHODS:

Dissolve or mix material with proper solvent and incinerate.

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Material is generally stable. Keep away from open flames. Store at +5°C or colder. OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS:

None.

## 8. Exposure Controls and Personal Protection Measures

#### **ENGINEERING CONTROLS**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below permissible exposure limits.

#### EXPOSURE LIMITS

Chemical Name	ACGIH	NIOSH	OSHA- Final PELs
2-Propenoic acid, 2-[4- (acetoxy)phenyl]ethyl ester	none listed	none listed	none listed

#### PERSONAL PROTECTIVE EQUIPMENT

### **RESPIRATORY PROTECTION (SPECIFY TYPE):**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

#### SKIN:

Wear appropriate protective gloves and clothing to prevent skin exposure.

CLOTHING:

Wear appropriate protective clothing to prevent skin exposure.

#### **EYE PROTECTION:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

## 9. Physical / Chemical Characteristics

#### **APPEARANCE:**

Physical State:	Liquid (low viscosity)
Color:	Light yellow
Odor:	Mild vinegar odor

#### **OTHER PROPERTIES:**

Boiling Point: Melting Point: Specific Gravity (H<sub>2</sub>O=1): Vapor Pressure: Vapor Density (Air-1): Solubility in water: Evaporation rate (BuAc=1): Avg. Molecular Weight: Molecular formula: Percent volatile (weight): Percent volatile (volume): Volatile organic content:

Not determined Not determined 1.135 Not determined Heavier than air. Slight <1 234.3  $C_{13}H_{14}O_4$ Not determined Not determined Not determined

## **10. Reactivity Hazard Data**

STABILITY:	Stable	
CONDITIONS TO AVOID:	Open flames, high temperatures	
INCOMPATIBLE MATERIALS:	Strong acids or bases; strong oxidizing agents, free radical	
	initiators	
HAZARDOUS DECOMPOSITION PRODUCTS:		
	Carbon dioxide (CO2), carbon monoxide (CO)	
HAZARDOUS POLYMERIZATION:	Will not occur	
CONDITIONS TO AVOID:	Open flames; strong oxidizing agents	

## 11. Toxicological Information

Toxicological testing has not been performed on this product.

CARCINOGEN STATUS:	CAS # 926305-16-0: not listed by ACGIH, IARC, NTP or CA Prop 65
EPIDEMIOLOGY:	No information found
TERATOGENICITY:	No information found
<b>REPRODUCTIVE EFFECTS:</b>	No information found
MUTAGENICITY:	No information found
NEUROTOXICITY:	No information found
ECOTOXICITY:	No data available. No information available.
ENVIRONMENTAL:	No data available
PHYSICAL:	No data available

## 12. Ecological Information

ELIMINATION (persistance and degradability): Biodegradability: Not determined

AQUATIC TOXICITY: Acute toxicity to fish: Not determined Acute toxicity to plants: Not determined Microorganisms: Not determined.

## 13. Disposal Considerations

**WASTE DISPOSAL METHOD:** Disposal should be in accordance with local, state of national legislation.

**EMPTY CONTAINER WARNINGS:** Empty containers may contain product residue, follow MSDS and label warnings even after they have been emptied.

## 14. Transport Information

Not a hazardous material for transportation.

#### **US DOT REGULATIONS:**

NON-BULKProper Shipping Name: Not regulatedBULKProper Shipping Name: Not regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an

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authorized safety officer. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## **15. Regulatory Information**

CA PROPOSITION 65:	This material does not contain any chemicals known to the State of California to cause cancer or reproductive defects.	
TSCA INVENTORY STATUS:		Material is manufactured under a Low Volume Exemption (LVE) in compliance with Section 5 (h)(4) of the Toxic Substances Control Act, 15 U.S.C.
TSCA 12(b) EXPORT NOTIFIC	ATION:	This material does not contain 12(b) regulated chemicals.
SARA 311/312 HAZARD CLAS	SS:	There are no known hazards associated with this material.
EINECS IDENTIFICATION:		This material is not listed on EINECS.

## 16. Other Information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgments of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. While that data contained herein is factual, it should not be taken as warranty or representation for which the company assumes legal responsibility. It is offered solely for your consideration, investigation and verification. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.