

# Safety Data Sheet

HEALTH	0
FLAMMABILITY	2
REACTIVITY	0

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name	<b>Ethyl Aceto Acetate, Natural</b>
Product Number	<b>0241500</b>
CAS-No.	<b>141-97-9</b>

### 1.2 Product Recommended Use

**Flavorings**

### 1.3 Preparation Information

Company	Aurochemicals 7 Nicoll Street Washingtonville, NY 10992
Telephone	845-496-6065
Fax	845-496-6248

### 1.4 Emergency Telephone Number

1-800-535-5053  
International - 1-352-323-3500 collect

## Section 2: HAZARD(s) IDENTIFICATION

### 2.1 Classification of substance or mixture

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

Flammable liquids (Category 4), H227  
Acute toxicity, oral (Category 5)  
Skin corrosion/irritation (Category 3)  
Serious eye damage/eye irritation (Category 2A)  
Specific target organ exposure, single exposure (Category 3) respiratory tract irritation  
Aspiration hazard (Category 2)

### 2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Statement

Warning

Hazard Statement(s)

H227 Combustible Liquid  
H303 May be harmful if swallowed  
H305 May be harmful if swallowed and enters airways  
H316 Causes mild skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

Precautionary  
Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking  
P261 Avoid breathing mist or vapor

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P264 Wash thoroughly after handling  
 P271 Use in a well ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection

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.

## 2.3 HNOC (Hazards not otherwise classified or not covered by GHS - None)

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms Acetoacetic ester

Formula  $C_6H_{10}O_3$   
 Molecular Weight 130.14 g/mol  
 CAS-No 141-97-9  
 EC-No. 205-516-1

#### Hazardous Components

Component	Classification	Concentration
Ethyl acetoacetate	Flammable liquid (4) H227	90-100%

### Section 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

General advice Consult physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

Inhalation Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a physician

Contact with skin: Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and warm water and contact a physician.

Contact with eyes: Rinse thoroughly with plenty of water for at least 15 mins as a precaution.

Ingestion DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Clothing contamination: Remove contaminated clothing and wash before reuse.

#### 4.2 Most important symptoms and effects both acute and delayed

See section 2.2 and or section 11

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No data available

### Section 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing Media

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

#### 5.2 Special hazards arising from the

Fire may produce irritating, corrosive and/or toxic gases.

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- substance or mixture  
 5.3 Advice for fire fighters  
 5.4 Further information

Wear self contained breathing apparatus for firefighting if necessary.  
 Use water spray to cool unopened containers.

## Section 6: ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe area. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- 6.2 **Environment precautions** Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system.
- 6.3 **Methods and materials for containment and clean up** Contain spillage. Soak up with absorbent material. Sweep up with broom and shovel. Place in a suitable, closed container for disposal.
- 6.4 **Specific end use(s)** Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

## Section 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Avoid contact with skin and eyes. Avoid Inhalation of vapor or mist. Keep away from sources of ignition. Take measures to prevent the buildup of electrostatic charge.
- 7.2 **Conditions for Safe storage** 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.
- 7.3 **Specific End use(s)** Flavorings

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 **Control parameters**  
**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.
- 8.2 **Exposure Controls**
- |                                  |  |
|----------------------------------|--|
| Appropriate Engineering Controls | Avoid contact with skin, eyes and clothing.<br>Handle in accordance with good industrial hygiene and safety practices.<br>Wash hands immediately after handling the product; before breaks and at the end of the day.  |
| Personal protective equipment    | <b>These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. They should not be construed as offering an approval for any specific use scenario.</b> |
| Eye/face protection              | Wear appropriate safety glasses with side shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).  |

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Skin protection	Wear chemically resistant, Nitrile rubber gloves, 0.4mm when handling this product.. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.
Body protection	Impervious clothing protecting against chemicals, should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
Respiratory protection	Where risk assessment shows air purifying respirators are appropriate use a full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a back up 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 governmental 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. Discharge into the environment must be avoided.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a	Appearance	Colorless liquid
b	Odor	Characteristic ether like
c	Odor Threshold	No data available
d	pH	No data available
e	Melting Point /Freezing Point	-43°C
f	Boiling Point	181°C
g	Flash Point	71°C closed cup Tested according to Annex V of Directive 67/548/EEC
h	Evaporation Rate	No data available
i	Flammability (Solid, Gas)	No data available
j	Upper/lower Flammability Limit	Upper explosion limit: 9.5% (V) Lower explosion limit: 1.4% (V)
k	Vapor pressure	0.26 hPa at 20°C 0.42 hPa at 25°C 3.5 hPa at 50°C (OECD Test Guideline 104)
l	Vapor density	4.49 (Air = 1.0)
m	Relative density at 25°C	1.010-1.050
n	Solubility	Slightly soluble in water, soluble in most organic solvents
o	Partition coefficient: n-octanol/water	log Pow: 0.8 at 20°C
p	Auto-ignition Temp.	No data available
q	Decomposition Temp.	No data available
r	Viscosity	No data available
s	Explosive properties	No data available
t	Oxidizing properties	No data available

**9.2 Other Safety Information** No data available

## Section 10: STABILITY AND REACTIVITY

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10.1 Reactivity	No data available
10.2 Chemical Stability	Stable under recommended storage conditions
10.3 Possibility of Hazardous reactions	No data available
10.4 Conditions to avoid	Heat, flames and sparks
10.5 Incompatible materials	Acids, Bases, Oxidizing agents, Reducing Agents
10.6 Hazardous decomposition products	No data available
10.7 Further Information	No data available

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

LD50-Oral-Rat-Female	10,8000 mg/kg
LC50-Inhalation	No data available
LD50-Dermal-Rat-M/F	>2,000 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation	Results: Rabbit: No skin irritation 72 hr (OECD Test Guideline 404)
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Serious eye damage/eye irritation	Results: Rabbit: No eye irritation 72 hr (OECD Test Guideline 405)
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Respiratory or skin sensitization	Results: Guinea Pig – Maximisation Test Does not cause skin sensitisation (OECD Test Guideline 406)
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Germ Cell mutagenicity	No data available
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#### Carcinogenicity

IARC	No component of this product, present levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
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ACGIH	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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NTP	No component of this product, present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
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OSHA	No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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Reproductive toxicity	No data available
Specific target organ toxicity-single exposure (GHS)	No data available

Specific target organ toxicity-repeated exposures (GHS)	No data available
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Aspiration Hazards	No data available
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Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
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Synergistic effect	No data available
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RTECS:

AK5250000

## Section 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

To Fish:

LC-50- Semi-static Test- Danio rerio (zebra fish) >100 mg/l 96 h  
(OECD Test Guideline 203)

To Daphnia and other aquatic invertebrates –

EC50 – Static Test Daphnia magna (Water Flea) >100 mg/l 48 h  
(OECD Test Guideline 202)

To Algae

EC50-Static Test – Desmodesmus subspicatus (green algae) >100 mg/l 72 h  
(OECD Test Guideline 201)

### 12.2 Persistence and degradability

Biodegradability:

Aerobic Chemical Oxygen Demand – Exposure time 28 d

Result: 68% Readily biodegradable  
(OECD Test Guideline 301D)

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Other adverse effects

No data available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1 Disposal methods

Product:

According to local regulations

Packaging

According to local regulations

## Section 14: TRANSPORT INFORMATION

DOT (US)

Proper shipping name:

Marine Pollutant:

Poison Inhalation Hazard:

IMDG

IATA

NA-Number: 1993 Class: Combustible liquid Packing Group: III

Combustible Liquid n.o.s. (Ethyl acetoacetate)

No

No

Not dangerous goods

Not dangerous goods

## Section 15: REGULATORY INFORMATION

Reach No.

A registration number is not available for this substance as 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

No chemicals in this material are subject to the reporting requirements of SARA Title III,  
Section 302

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## SARA 313 Components

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

Ethyl acetoacetate CAS# 141-97-9 Rev. Date: 4/24/1993

## Pennsylvania Right to Know components

Ethyl acetoacetate CAS# 141-97-9 Rev. Date: 4/24/1993

## New Jersey Right to Know components

Ethyl acetoacetate CAS# 141-97-9 Rev. Date: 4/24/1993

## 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.

## Section 16: OTHER INFORMATION

### HMIS Rating

Health hazard 0  
Chronic Health Hazard  
Flammability 2  
Physical Hazard 0

### Further Information

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

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