



Material Safety Data Sheet

Catalog Number: 100019
Revision date: 24-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 100019

Product name: ACETOACETIC ACID ETHYL ESTER

Synonyms: Ethyl Aceto Acetate

Supplier:

MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
ACETOACETIC ACID ETHYL ESTER	141-97-9	90 - 100%	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May cause irritation to the eyes, skin and respiratory system.

Category of Danger:

Irritant , Lachrymator

Principle routes of exposure: Skin

Inhalation: Irritating to respiratory system

Ingestion: Irritating to mouth, throat and stomach

Skin contact: Irritating to skin.

Eye contact: Contact with eyes may cause irritation

Vapors extremely irritating to eyes and respiratory tract

ANSI Classification Irritant - eye, skin, respiratory, Irritant - eye, severe

Statements of hazard May Cause Eye, Skin and Respiratory Tract irritation.

CAUSES EYE IRRITATION.

Statement of Spill or Leak - ANSI Label Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment.

Statement of First Aid In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of contact, flush eyes with running water for at least 15 minutes. Consult a physician for irritation or any other symptom.

Precautions - ANSI Label Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Avoid breathing vapors. Avoid contact with skin, eyes and clothing Wash thoroughly after handling. Avoid prolonged or repeated contact with the skin, eyes or respiratory tract. Wash thoroughly after exposure.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water for at least 15 minutes. Call a physician immediately.

Ingestion: Do not induce vomiting without medical advice.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Protection of first-aiders: No information available.

Medical conditions aggravated by exposure: None known.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Use dry chemical, CO₂, water spray or "alcohol" foam. Use dry chemical, CO₂, water spray or "alcohol" foam.

Specific hazards:

Burning produces irritant fumes.

Unusual hazards:

None known.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for fire fighting if necessary. In the event of fire and/or explosion do not breathe fumes.

Specific methods:

Water mist may be used to cool closed containers.

Flash point:

84.4°C

Autoignition temperature:

280 °C

NFPA rating:

NFPA Health: 1

NFPA Flammability: 1

NFPA Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment.

Environmental precautions:

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up:

Ground and bond containers when transferring material. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE

Handling:

Use only in area provided with appropriate exhaust ventilation.

Safe handling advice:

Wear personal protective equipment. Remove and wash contaminated clothing before reuse. Use only in well-ventilated areas.

Technical measures/storage conditions:

Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place.

Incompatible products:

Oxidising and spontaneously flammable products.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation, especially in confined areas.

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PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Impervious clothing

Eye protection: Goggles If splashes are likely to occur, wear: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.


9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor	Colorless; fruity rum odor
Physical state:	Liquid
Formula:	C6-H10-O3
Molecular weight:	130.15
Melting point/range:	-39 - -44 °C
Boiling point/range:	178 - 187 °C at 1013 hPa
Density:	1.027 - 1.03 g/cm3 at 20 °C
Vapor pressure:	1 hPa at 20 °C
Evaporation rate:	No data available
Vapor density:	4.49 (air = 1)
Solubility (in water):	Soluble
Flash point:	84.4°C
Autoignition temperature:	280 °C

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	None under normal processing.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.
Materials to avoid:	-
Forms explosive mixture with air. Incompatible with strong acids, nitrates, oxidizers.	
Conditions to avoid:	Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION
Product Information
Acute toxicity
Components

ACETOACETIC ACID ETHYL ESTER

RTECS Number:

AK5250000

Selected LD50s and LC50s

Oral LD50 Rat : 3980 mg/kg

Oral LD50 Mouse : 5105 mg/kg

Chronic toxicity:	Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.
Local effects:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Specific effects:	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
Primary irritation:	A primary irritant.
Carcinogenic effects:	No data is available on the product itself.
Mutagenic effects:	No data is available on the product itself.
Reproductive toxicity:	No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility:	No data available		
Bioaccumulation:	No data available		
Ecotoxicity effects:	No data available		
Aquatic toxicity:	May cause long-term adverse effects in the aquatic environment.		
Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:
ACETOACETIC ACID ETHYL ESTER	Not Listed	Not Listed	Not Listed
Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
ACETOACETIC ACID ETHYL ESTER ₁		Not Listed	LC50 (96 hr) fathead minnow:300-310 mg/L.;LC50 (96 hr) rainbow trout:300-310 mg/L. LC50 (96 hr) bluegill:300-310 mg/L.
Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
ACETOACETIC ACID ETHYL ESTER	Not Listed	Not Listed	EC50 (24 hr) water flea:790-800 mg/L. Cond:Static.
Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
ACETOACETIC ACID ETHYL ESTER	Not Listed	indicator 2; Provisionally sponsored	Not Listed
Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants	
ACETOACETIC ACID ETHYL ESTER	Not Listed	Not Listed	

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.
Contaminated packaging:	Do not re-use empty containers
Methods for cleaning up:	Ground and bond containers when transferring material Soak up with inert absorbent material.

14. TRANSPORT INFORMATION

UN/Id No:	Not regulated
DOT:	
Proper shipping name:	Not Regulated

Components **U.S. DOT - Appendix A Table 1 - Reportable Quantities**
 ACETOACETIC ACID ETHYL ESTER Not Listed

TDG (Canada):**WHMIS hazard class:**

B3 combustible liquids
 D2b toxic materials

**IMDG/IMO****IMDG - Hazard Classifications**

Not Applicable

Components **U.S. DOT - Appendix B - Marine Pollutants** **U.S. DOT - Appendix B - Severe Marine Pollutants**
 ACETOACETIC ACID ETHYL ESTER Not Listed Not Listed

IMO-labels:**15. REGULATORY INFORMATION****International Inventories****Components**

ACETOACETIC ACID ETHYL ESTER

Inventory - United States TSCA - Sect. 8(b)

Present

Canada DSL Inventory List -

Present

Australia (AICS):

Present

Inventory - China:

Present

EU EINECS List -

205-516-1; C6H10O3

Inventory - Japan:

2-1475

Korean KECL:

KE-27567

Philippines PICCS:

Present

U.S. regulations:**Components**

	California Proposition 65	Massachusetts Right to Know List:	New Jersey Right to Know List:	Pennsylvania Right to Know List:
ACETOACETIC ACID ETHYL ESTER	- Not Listed	[present]	Not Listed	[present]

Components

	Florida substance List:	Rhode Island Right to Know List:	Illinois - Toxic Air Contaminants	Connecticut - Hazardous Air Pollutants
ACETOACETIC ACID ETHYL ESTER	[present]	Not Listed	Not Listed	Not Listed

Components

	SARA 313 Emission reporting/Toxic Release of Chemicals	CERCLA/SARA - Section 302 Extremely Haz	NTP:	IARC:
ACETOACETIC ACID ETHYL ESTER	Not Listed	Not Listed	None	None

SARA 313 Notification:

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification:

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet