



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ETHYL ACETOACETATE

CAS Number: 141-97-9

1. IDENTIFICATION:

Product Code : 91946, 98242

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:**Hazard classification**

Physical hazards : Not a hazardous substance or mixture

Health hazards : Not a hazardous substance or mixture

Labels elements

Hazard symbol : Not a hazardous substance or mixture

Signal word : Not a hazardous substance or mixture

Hazard statement : Not a hazardous substance or mixture

Precautionary statement

Prevention : Obtain special instructions before use.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.

Response : IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Rinse skin with water/ shower.

IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing.

Storage : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Disposal : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
Ethyl Acetoacetate	141-97-9	NLT 98.0%	No



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4. FIRST AID MEASURES:

General information	:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion	:	Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Move to fresh air.. If breathing stops, provide artificial respiration. If breathing is difficult,
Inhalation	:	give oxygen. Get medical attention if symptoms persist.
Skin contact	:	Flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.
Eye contact	:	Flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.
Most important symptoms/effects, acute and delayed	:	Not a hazardous substance or mixture
Indication of immediate medical attention and special treatment needed	:	Not a hazardous substance or mixture

5. FIRE FIGHTING MEASURES:

General information	:	No data available.
Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	:	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	:	Avoid water in straight hose stream; will scatter and spread fire.
Specific hazards arising from the chemical	:	Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in flammability hazard. Heat may cause the containers to explode.
Special protective equipment and precautions for firefighters		
Special firefighting procedures	:	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
Special protective equipment for fire-fighters	:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures	:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Methods and material for containment and cleaning	:	Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.



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up	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures	: Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions	: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling	Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection / face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	: Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Control parameters****Appropriate engineering**

controls : No data available

Individual protection measures, such as personal protective equipment

General information	: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection	: Wear safety glasses with side shields (or goggles).
Hand protection	: Chemical resistant gloves.
Other	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.
Hygiene measures	: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	: Clear, colorless liquid
Odor	: Characteristic, ester-like
Solubility	: Miscible in water.
Formula	: C ₆ H ₁₀ O ₃
Molecular Weight	: 130.14 g/mol
Specific Gravity	: 1.022 - 1.027 g/cm ³ at 20°C
pH	: 4,0 at 110 g/l at 20 °C
% Volatiles by volume @ 21C (70F)	: No data available.
Boiling Point	: 181°C
Melting Point	: -43°C
Flash Point	: 73,5 °C
Vapor Density (Air=1)	: 4.49
Vapor Pressure (mm Hg)	: 0,26 hPa at 20 °C -
Evaporation Rate (BuAc=1)	: No data available.

10. STABILITY AND REACTIVITY:

Reactivity	: Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.
Chemical stability	: Material is stable under ambient conditions..
Possibility of hazardous reactions	: Violent reactions possible with: Strong oxidizing agents Strong acids Strong bases
Conditions to avoid	: Heat, sparks, flames. Sunlight.
Incompatible materials	: No data available.
Hazardous decomposition products	: In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:**Information on likely routes of exposure**

Ingestion	: No data available.
Inhalation	: No data available.
Skin contact	: No data available.
Eye contact	: No data available.

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Information on toxicological effects**Acute toxicity (list all possible routes of exposure)**

Oral Product	: LD 50 Rat - female - 10.800 mg/kg
Dermal Product	: LD 50 Rat - male and female - > 2.000 mg/kg
Inhalation Product	: LD 50 Rabbit - male and female - 4 h - > 49,2 mg/l - vapor
Repeated dose toxicity Product	: No data available.
Skin corrosion/irritation Product	: No data available.
Serious eye damage/eye irritation Product	: No data available.
Respiratory or skin sensitization Product	: Not a skin sensitizer.
Carcinogenicity Product	: This substance has no evidence of carcinogenic properties
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	: No carcinogenic components identified.
US. National Toxicology Program (NTP) Report on Carcinogens	: No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	: No carcinogenic components identified.
Germ cell mutagenicity	
In vitro Product	: No data available.
Reproductive toxicity Product	: No components toxic to reproduction.
Specific target organ toxicity - single exposure Product	: Not known.
Specific target organ toxicity - repeated exposure Product	: None known.
Aspiration hazard Product	: No data available.
Other effects	: No data available.

12. ECOLOGICAL INFORMATION:**Ecotoxicity****Acute hazards to the aquatic environment**

Fish Product	: LC50 - Danio rerio (zebra fish) - > 100 mg/l
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Aquatic invertebrates Product : EC50 - Daphnia magna (Water flea) - > 100 mg/l

Chronic hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: : No data available.

Persistence and degradability

Biodegradation Product : 66 % - Readily biodegradable.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor (BCF) Product : No data available on bioaccumulation.

Partition coefficient n-octanol / water (log Kow) Product : No data available.

Mobility in soil : No data available.

Other adverse effects : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT		Ethyl Acetoacetate		Not dangerous goods	
IMDG		Ethyl Acetoacetate		Not dangerous goods	
IATA		Ethyl Acetoacetate		Not dangerous goods	

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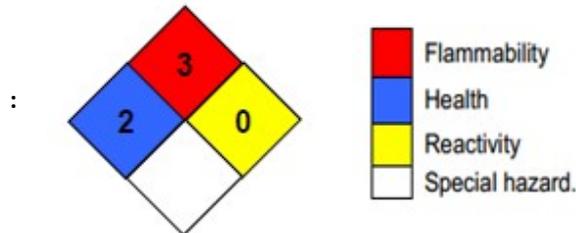
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15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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