

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 14/01/2011

CLM-522

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Supersedes: 01/01/2012

Version: 3.0

SECTION 1: Identification of the su	ubstance/mixture and of the company/undertaking
I.1. Product identifier	
Product form	: Substance
Substance name	: ETHYL ACETOACETATE (1,3-13C2, 99%)
EC No	: 205-516-1 (Unlabeled)
CAS No	: 77504-73-5
Product code	: CLM-522
Formula	: CH3*COCH2*COOCH2CH3
Synonyms	: Acetoacetic ester
I.2. Relevant identified uses of the su	bstance or mixture and uses advised against
I.2.1. Relevant identified uses	
Main use category	: Professional use
ndustrial/Professional use spec	: For professional use only
I.2.2. Uses advised against	
No additional information available	
I.3. Details of the supplier of the safe	tv data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 JSA	
JSA: 1-800-322-1174 Int: 1-978-749-8000 <u>ilsales@isotope.com</u> www.isotope.com	
Emergency telephone number	
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) nternational: 1-703-741-5970 (24 hours)	
SECTION 2: Hazards identification	
2.1. Classification of the substance of	' mixture
Classification according to Regulation (EC Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335) No. 1272/2008 [CLP]
Full text of hazard classes and H-statements :	see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] Xi; R36/37/38 Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 4 H227 Skin Irrit. 2 H315 Eye Irrit. 2A H319 STOT SE 3 H335 Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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22 Label elements

2.2. Label elements	
Labelling according to Regulation (EC) I	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (CLP)	 P261 - Avoid breathing dust, fume, gas, mist, spray, vapours P264 - Wash hands, forearms and face thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a doctor if you feel unwell
GHS-US labelling	
Hazard pictograms (GHS-US)	
	GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	 H227 - Combustible liquid H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	 P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking P261 - Avoid breathing dust, fume, gas, mist, spray, vapours P264 - Wash hands, forearms and face thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective clothing, protective gloves P302+P352 - If on skin: Wash with plenty of water P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a doctor if you feel unwell P321 - Specific treatment (see Hazardous component(s) for labelling on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry extinguishing powder to extinguish P403+P235 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Other hazards 2.3.

No additional information available

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
ETHYL ACETOACETATE (1,3-13C2, 99%)	(CAS No) 77504-73-5 (EC No) 205-516-1 (Unlabeled)	100	Xi; R36/37/38

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ETHYL ACETOACETATE (1,3-13C2, 99%)	(CAS No) 77504-73-5 (EC No) 205-516-1 (Unlabeled)	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of R- and H-statements: see section 16

Name	Product identifier	%	GHS-US classification
ETHYL ACETOACETATE (1,3-13C2, 99%) (Main constituent)	(CAS No) 77504-73-5	100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of H-statements: see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measur	res
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing, give artificial respiration. Get medical advice/attention. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash off with soap and plenty of water. Consult a physician. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Gently wash with plenty of soap and water, Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).
First-aid measures after eye contact	: Rinse cautiously with water for several minutes.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and	d effects, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
4.3. Indication of any immediate m	edical attention and special treatment needed
No additional information available	
SECTION 5: Fire fighting measu	
SECTION 5. Fire-inglitting measu	Ires
SECTION 5: Fire-fighting measu 5.1. Extinguishing media	ires
	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.1. Extinguishing media	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.1.Extinguishing mediaSuitable extinguishing media	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
5.1.Extinguishing mediaSuitable extinguishing media5.2.Special hazards arising from t	: Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
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 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the No additional information available 5.3. Advice for firefighters Firefighting instructions 	 : Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). he substance or mixture : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. : Do not enter fire area without proper protective equipment, including respiratory protection.
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 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from to No additional information available 5.3. Advice for firefighters Firefighting instructions Protection during firefighting Other information SECTION 6: Accidental release 	 : Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). he substance or mixture : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. : Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment. : Use water spray to cool exposed surfaces.
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5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the second secon	 : Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). he substance or mixture : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. : Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment. : Use water spray to cool exposed surfaces. measures ive equipment and emergency procedures : Use personal protective equipment, and ensure adequate ventilation. Avoid breathing vapors, mist, gas. Remove ignition sources, and move personnel to safe area. Vapors accumulate
 5.1. Extinguishing media Suitable extinguishing media 5.2. Special hazards arising from the No additional information available 5.3. Advice for firefighters Firefighting instructions Protection during firefighting Other information SECTION 6: Accidental release 6.1. Personal precautions, protection 6.1.1. For non-emergency personnel Emergency procedures 	 : Water spray. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). he substance or mixture : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. : Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment. : Use water spray to cool exposed surfaces. measures ive equipment and emergency procedures : Use personal protective equipment, and ensure adequate ventilation. Avoid breathing vapors, mist, gas. Remove ignition sources, and move personnel to safe area. Vapors accumulate

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6.2.	Environmental precautions		
Prever	nt entry to sewers and public waters. Do	not allow to enter drains or water courses. Avoid release to the environment.	
6.3.	6.3. Methods and material for containment and cleaning up		
For co	ntainment	: Collect spillage. Clean up any spills as soon as possible, using an absorbent material to collect it. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.	
Metho	ds for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.	
6.4.	Reference to other sections		
No add	ditional information available		
SEC	FION 7: Handling and storage		
7.1.	Precautions for safe handling		
Precau	itions for safe handling	: Avoid breathing dust, fume, gas, mist, spray, vapours. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Eliminate all ignition sources if safe to do so. Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.	
Hygier	e measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands, forearms and face thoroughly after handling.	
7.2.	Conditions for safe storage, inclue	ding any incompatibilities	
Techni	cal measures	: Store tightly closed in a dry and cool place.	
Storag	e conditions	: Store at room temperature away from light and moisture.	
7.3.	Specific end use(s)		
No add	ditional information available		
SEC	FION 8: Exposure controls/per	sonal protection	
8.1.	Control parameters		
No add	ditional information available		
8.2.	Exposure controls		
Persor	nal protective equipment	: Gloves. Protective clothing. Self-contained breathing apparatus. Protective goggles.	
Materia	als for protective clothing	: Wear suitable protective clothing and gloves.	
Hand p	protection	: Wear suitable protective clothing and gloves.	
Eye pr	otection	: Wear eye protection. Chemical goggles or face shield with safety glasses.	
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- : Wear suitable protective clothing, gloves and eye/face protection.
- Skin and body protection Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

SECTION 9: Physical and chemica	
9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 132.13 g/mol (Labeled)
Colour	: Colourless.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -43 °C (-45 °F) - lit
Freezing point	: No data available
Boiling point	: 181 °C (358 °F) - lit
Flash point	: 73.5 °C (164.3 °F) - closed cup
Auto-ignition temperature	: 304 °C (579 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available

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Vapour pressure	: 0.26 hPa (.20 mmHg) at 20 °C (68 °F) - OECD Test Guideline 104
Vapour pressure at 50 °C	: 3.5 hPa (2.6 mmHg) at 50 °C (122 °F) - OECD Test Guideline 104
Relative vapour density at 20 °C	: 4.49 (Air = 1.0)
Relative density	: No data available
Density	: 1.029 g/ml at 20 °C (68 °F) - lit.
Solubility	: Water: 130 g/l at 20 °C (68 °F) - OECD Test Guideline 105
Log Pow	: 0.8 at 20 °C (68 °F) - OECD Test Guideline 117
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 1.4 - 9.5 % (V)

9.2. **Other information**

No additional information available

SECT	ION 10: Stability and reactivity
10.1.	Reactivity
No addi	tional information available
10.2.	Chemical stability
Stable if	f stored under recommended conditions.
10.3.	Possibility of hazardous reactions
No addi	tional information available
10.4.	Conditions to avoid
No addi	tional information available
10.5.	Incompatible materials
Acids. E	Bases. Oxidizing agent. Reducing agents.
10.6.	Hazardous decomposition products
Carbon	oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
ETHYL ACETOACETATE (1,3-13C2, 99%) (7504-73-5)
LD50 oral rat	10800 mg/kg female
LD50 dermal rat	> 2000 male and female - OECD Guideline 402
ATE CLP (oral)	3980.000 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation.
	Skin - rabbit - Open irritation test
Serious eye damage/irritation	: Causes serious eye irritation.
	Eyes - rabbit - Moderate eye irritation - 24 h
Respiratory or skin sensitisation	: Not available
	No data available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not classified
Reproductive toxicity	: Not available
STOT-single exposure	: May cause respiratory irritation.
	No data available
STOT-repeated exposure	: Not classified
	No data available
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory irritation.
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Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
ETHYL ACETOACETATE (1,3-13C2, 99%) (77504-73-5)		
LC50 fish 1	> 100 mg/l semi static test - Danio rerio (zebra fish) - 96 h	
EC50 Daphnia 1	> 100 mg/l semi static test - Daphnia magna (Water flea) - 48 h	
EC50 other aquatic organisms 1	> 100 ml/l semi static test - Desmodesmus subspicatus (green algae) - 72 h	

12.2. Persistence and degradability		
ETHYL ACETOACETATE (1,3-13C2, 99%) (77504-73-5)		
Biodegradation	66 % Readily biodegradable	
12.3. Bioaccumulative potential		
ETHYL ACETOACETATE (1,3-13C2, 99%) (77	/504-73-5)	
Log Pow	0.8 at 20 °C (68 °F) - OECD Test Guideline 117	
Bioaccumulative potential	Not available.	
12.4. Mobility in soil		
ETHYL ACETOACETATE (1,3-13C2, 99%) (77	′504-73-5)	
Ecology - soil	Not available.	
12.5. Results of PBT and vPvB assessmer	nt	
No additional information available		
12.6. Other adverse effects		
Other adverse effects	: Not available.	
SECTION 13: Disposal consideration	S	
13.1. Waste treatment methods		
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.	
Product/Packaging disposal recommendations:	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.	
Ecology - waste materials	: Dispose of as unused product.	
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA / AD	DN	
14.1. UN number		
UN-No.(DOT)	: 1993	
DOT NA no.	NA1993	
14.2. UN proper shipping name		
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.	
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120	
DOT Symbols	: D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name	
Packing group (DOT)	: III - Minor Danger	
DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal	
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DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
Marine pollutant	: No
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 128
Other information	: No supplementary information available.
Special transport precautions	: IMDG/IATA: Not dangerous goods.
Overland transport	
No additional information available	
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
14.4. Environmental hazards	
Other information	: No supplementary information available.
14.5. Special precautions for user	
Special transport precautions	: IMDG/IATA: Not dangerous goods.

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information	
15.1. US Federal regulations	
ETHYL ACETOACETATE (1,3-13C2, 99%) (77504-73-5)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

15.2. International regulations

CANADA

ETHYL ACETOACETATE (1,3-13C2, 99%) (7	7504-73-5)
Listed on the Canadian DSL (Domestic Substances List)	

15.2.1. National regulations

No additional information available

15.3. US State regulations

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ETHYL ACETOACETATE (1,3-13C2, 99%)(77504-73-5)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive	No

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ETHYL ACETOACETATE (1,3-13C2, 99%)(77504-73-5)	
Toxicity - Female	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
R36/37/38	Irritating to eyes, respiratory system and skin
Xi	Irritant

NFPA health hazard	2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 2 Moderate Hazard
Physical	: 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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