



1: Identification Product identifier

Protective equipment: Wear self-contained respirator.

Product name: Ethyl 2-methylacetoacetate

Stock number: A11629, L03173 CAS Number: 609-14-3 EC number: 210-179-9 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar, A Johnson Matthey Company Johnson Matthey Catalog Company, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech @alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal hours the Health, Safety and Environmental Department at (800) 343-0660. After normal hours call Carechem 24 at (866) 928-0789. 2: Hazard(s) identification Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 H227 Combustible liquid. Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable Information concerning particular hazards for human and environment: Not applicable Hazards not otherwise classified No information known. Label elements Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labeled according to the CLP regulation. Hazard pictograms Not applicable Signal word Warning Hazard statements H227 Combustible liquid. WHMIS classification B3 - Combustible liquid * Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH 1 Health (acute effects) = 1 Flammability = 2 Physical Hazard = 1 2 FIRE REACTIVITY 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3: Composition/information on ingredients Chemical characterization: Substances CAS# Description: 609-14-3 Ethyl 2-methylacetoacetate Identification number(s): EC number: 210-179-9 4: First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5: Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Advice for firefighters

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	Wear fully protective impervious suit.		(Contd. of page		
	6: Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondary hazards: Keep away from ignition sources. Reference to other sections See Section 7 for information on safe handling See Section 13 for disposal information.				
	Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and fires: Keep ignition sources away. any incompatibilities as and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. aditions: ad containers.			
	8: Exposure controls/personal pr Additional information about design of	f technical systems:			
	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data				
	Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses Body protection: Protective work clothing.				
9: Physical and chemical properties					
	Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	emical properties Liquid Colorless Ester-like Not determined.			
	pH-value:	Not determined.			
	Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	-45 °C (-49 °F) 185 °C (365 °F) Not determined			
	Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	62 °C (144 °F) Not determined. Not determined Not determined Not determined.			
	Danger of explosion: Explosion limits: Lower: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water:	Product does not present an explosion hazard. Not determined Not determined Not determined 1.019 g/cm ³ (8.504 lbs/gal) Not determined. Not determined. Not determined. Not determined. Not miscible or difficult to mix			
	Partition coefficient (n-octanol/water):		(Contd on page		
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Viscosity: dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.	
10: Stability and reactivity Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions Possibility of hazardous reactions No Incompatible materials: Oxidizing age Hazardous decomposition products:	ents	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: Other than potential irritation (see above Subacute to chronic toxicity: No effect	se irritation e irritation nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. / - repeated exposure: No effects known. / - single exposure: No effects known. re), no information on illness or injury to humans from acute or chronic exposure to this product is availab	le.
12: Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No furt Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow material to be released to a Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable.	ther relevant information available. relevant information available. ormation available. the environment without proper governmental permits. nt	
13: Disposal considerations Waste treatment methods	or national regulations to ensure proper disposal.	
14: Transport information Not a hazardous material for transporta	ation.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
· · ·	x II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Marine Pollutant (DOT):	No	
National regulations All components of this product are listed All components of this product are listed	gulations/legislation specific for the substance or mixture d in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Invent d on the Canadian Non-Domestic Substances List (NDSL). emical listings) Substance is not listed	'ory.

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All components of this product are listed on the Canadian Non-Domestic Substa SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed.

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