

1 Identification
Product identifier
Product name: Acetylacetaldehyde dimethyl acetal
Stock number: A12058, L07500
CAS Number: 5436-21-5
EC number: 226-605-1
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
Thermo Fisher Scientific Chemicals, 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 business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS02 Flame
Flam. Liq. 3 H226 Flammable liquid and vapour. Hazards not otherwise classified No information known.
Label elements
GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS02
Signal word Warning         Hazard statements         H226 Flammable liquid and vapour.         Precautionary statements         P210       Keep away from heat/sparks/open flames/hot surfaces. No smoking.         P280       Wear protective gloves/protective clothing/eye protection/face protection.         P240       Ground/bond container and receiving equipment.         P303+P351+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.         P403+P235       Store in a well-ventilated place. Keep cool.         P501       Dispose of contents/container in accordance with local/regional/national/international regulations.         WHMIS classification       B3 Combustible liquid
Classification system         HMIS ratings (scale 0-4)         (Hazardous Materials Identification System)         HEALTH       I         HEALTH       I         HEALTH       I         HEALTH       I         HEALTH       I         FIRE       I
REACTIVITY Physical Házard = 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:
5436-21-5 Acetylacetaldehyde dimethyl acetal Identification number(s): EC number: 226-605-1
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.
(Contd. on page 2

Product name: Acetylacetaldehyde	dimethyl acetal	
Information for doctor		(Contd. of page 1)
Most important symptoms and effect	ts, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures Extinguishing media	e of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. Instance or mixture	
6 Accidental release measures		
Personal precautions, protective equ Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not al Methods and material for containmer	otected persons away. The environment without proper governmental permits. Ilow material to be released to the environment without proper governmental permits. Ind, diatomite, acid binders, universal binders, sawdust). Ind protection equipment.	
7 Handling and storage		
Conditions for safe storage, includin Storage Requirements to be met by storerooi	ee. explosions and fires: Keep ignition sources away. g any incompatibilities ms and receptacles: No special requirements. mmon storage facility: Store away from oxidizing agents. onditions:	
8 Exposure controls/personal prot		
Additional information about design		
Control parameters	quire monitoring at the workplace: Not required.	
Protection of hands: Impervious gloves Check protective gloves prior to each u	handling chemicals should be followed. and feed. othing immediately. and of work. working environment. spirator when high concentrations are present. se for their proper condition. y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
9 Physical and chemical properties	S	
Information on basic physical and ch General Information Appearance: Form:		
Color: Odor:	Colorless Not determined	
Odor threshold:	Not determined.	
pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined 170-172 °C (338-342 °F) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	57 °C (135 °F) Not determined. Not determined Not determined	
Auto igniting:	Not determined.	(Contd. on page 3)
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Product name: Acetylacetaldehyde o	dimethyl acetal		
			(Contd. of page 2)
Danger of explosion: Explosion limits:	Not determined.		
Lower: Upper:	Not determined Not determined		
Vapor pressure: Density at 20 °C (68 °F):	Not determined 0.996 g/cm³ (8.312 lbs/gal)		
Relative density	Not determined.		
Vapor density Evaporation rate	Not determined. Not determined.		
Solubility in / Miscibility with Water:	Not determined		
Partition coefficient (n-octanol/water): Viscosity:	Not determined.		
dynamic: kinematic:	Not determined. Not determined.		
Other information	No further relevant information available.	<u>.</u>	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agen Hazardous decomposition products: (	<ul> <li>be avoided: Decomposition will not occ dangerous reactions known t information available. ts</li> </ul>	cur if used and stored according to specifications.	
11 Toxicological information			
Information on toxicological effects Acute toxicity: No effects known.			
LD/LC50 values that are relevant for c Skin irritation or corrosion: Irritant to s	lassification: No data		
Eye irritation or corrosion: Irritating eff Sensitization: No sensitizing effects kno	fect.		
Germ cell mutagenicity: No effects kno	own.	al is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know			
Specific target organ system toxicity	- single exposure: No effects known.		
Aspiration hazard: No effects known. Subacute to chronic toxicity: The Peristry of Toxic Effects of Chemics	12 1 ( man (DTEOR) conorto the follow	· · · · · · · · · · · · · · · · · · ·	
Behavioral - somnolence (general depre Behavioral - sonvulsions or effect on sei	al Substances (RTECS) reports the follow ssed activity).	ling effects in laboratory animals:	
Additional toxicological information:	zure threshold. To the best of our knowledge the acute ar	nd chronic toxicity of this substance is not fully known.	
12 Ecological information			
Toxicity Aquatic toxicity: No further relevant info	e-metion overlable		
Persistence and degradability No further relevant into Bioaccumulative potential No further re	her relevant information available.		
Mobility in soil No further relevant inform	evant information available. Mation available.		
Additional ecological information: General notes:	· · · · · · · · · · · · · · · · · · ·		
Do not allow undiluted product or large of	he environment without proper governmer quantities to reach ground water, water co		
Avoid transfer into the environment. Results of PBT and vPvB assessment	t		
PBT: Not applicable. vPvB: Not applicable.			
Other adverse effects No further releva	nt information available.		
13 Disposal considerations			
Waste treatment methods Recommendation Consult state, local o	or national regulations to ensure proper dis	sposal.	
Uncleaned packagings: Recommendation: Disposal must be ma	ade according to official regulations.		
14 Transport information			
UN-Number DOT, IMDG, IATA		UN1224	
UN proper shipping name			
DOT IMDG, IATA		Ketones, liquid, n.o.s. (Acetylacetaldehyde dimethyl acetal) KETONES, LIQUID, N.O.S. (Acetylacetaldehyde dimethyl acetal)	
Transport hazard class(es)			
Class	;	3 Flammable liquids.	
Label Class	3	3 3 3 (F1) Flammable liquids	
			(Contd. on page 4)

oduct name: Acetylacetaldehyde dimethyl acetal	
Junet name. Acetylacetaluellyue ulliletilyi acetal	
	(Contd. of page
Label IMDG, IATA	3
<b>V</b>	
Class	3 Flammable liquids.
Label	3
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user EMS Number:	Warning: Flammable liquids F-E,S-D
Transport in bulk according to Annex II of MARPOL73/78 a	
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1224, Ketones, liquid, n.o.s. (Acetylacetaldehyde dimethyl acetal), 3, III
5 Regulatory information	
Safety, health and environmental regulations/legislation s GHS label elements The product is classified and labeled in a	pecific for the substance or mixture
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Signal word Warning	
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