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		VC131011 1
	1 Identification	
	Product identifier Product name: Diethyl acetylmalonate	
	Stock number: L12482 CAS Number: 570-08-1	
	Details of the supplier of the safety data sheet Manufacturer/Supplier:	
	Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
	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) 928-0)789.
1	2 Hazard(s) identification	
	Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) GHS07	
	Skin Irrit. 2 H315 Causes skin irritation.	
	Eye Irrit. 2A H319 Causes serious eye irritation. 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	
	GHS07	
	Signal word Warning Hazard statements	
	H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary statements	
	P280 Wear protective gloves / eye protection / face protection. P264 Wash thoroughly after handling. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see on this label). P321 Specific treatment (see on this label).	
	P305+P351+P338 If in eyes: Riňsé cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see on this label).	
	P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. WHMIS classification	
	D2B - Toxic material causing other toxic effects	
	\mathbf{T}	
	Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
	(Hazardous Materials Identification System)	
	FIRE I REACTIVITY Physical Hazard = 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: 570-08-1 Diethyl acetylmalonate	
	Concentratioń: ≤100%	
•	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.	
	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.	
	After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed	
	Causes skin irritation.	(Contd. on page 2)
		USA -

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Causes serious eye irritation. 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 Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away Ensure adequate ventilation Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed **PAC-1:** Substance is not listed **PAC-2:** Substance is not listed PAC-3: Substance is not listed. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). Protection of hands:

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 with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing.

9 Physical and chemical properties

Information on basic physical and cl General Information Appearance: Form: Odor: Odor: Odor threshold:	orm: Liquid or: Not determined	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 119-120 °C (246-248 °F) (17mm) Not determined	
		(Contd. on page 3) USA



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	(Conta. of page 2)
Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined. Not determined Not determined
Auto igniting:	Not determined.
Danger of explosion: Explosion limits:	Not determined.
Lower:	Not determined
Upper: Vapor pressure:	Not determined Not determined
Density:	Not determined
Relative density Vapor density	Not determined. Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
Partition coefficient (n-octanol/water)	
Viscosity: dynamic:	Not determined.
kinematic:	Not determined.
Other information	No further relevant information available.
10 Stability and reactivity	
Reactivity No information known.	
Chemical stability Stable under recom	mended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions Re	eacts with strong oxidizing agents
Conditions to avoid No further relevan	t information available.
Incompatible materials: Oxidizing age Hazardous decomposition products:	ns Carbon monoxide and carbon dioxide
11 Toxicological information	
11 Toxicological information	
Information on toxicological effects Acute toxicity: No effects known.	
LD/LC50 values that are relevant for o	
Skin irritation or corrosion: Causes sl Eye irritation or corrosion: Causes se	
Sensitization: No sensitizing effects kn	own.
Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data	own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity: No effects know	
	- repeated exposure: No effects known.
Specific target organ system toxicity	
Aspiration hazard: No effects known	
Subacute to chronic toxicity: No effect	ts known.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
12 Ecological information	
Toxicity	
Aquatic toxicity: No further relevant init Persistence and degradability No furth Bioaccumulative potential No further i	ormation available.
Bioaccumulative potential No further i	elevant information available.
Mobility in soil No further relevant infor Additional ecological information:	mation available.
General notes: Avoid transfer into the e	environment.
Results of PBT and vPvB assessmen PBT: Not applicable.	ť
vPvB: Not applicable.	
Other adverse effects No further releva	ant information available.
13 Disposal considerations	
Waste treatment methods	
Recommendation Consult state, local of Uncleaned packagings:	or national regulations to ensure proper disposal.
Recommendation: Disposal must be m	ade according to official regulations.
14 Transport information	
UN-Number	
DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	
Special precautions for user Transport in bulk according to Annex	Not applicable.

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Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	Not applicable
Regulatory information	
Safety, health and environmental regulations/legi GHS label elements The product is classified and la Hazard pictograms	Islation specific for the substance or mixture abeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
Signal word Warning Hazard statements	
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Precautionary statements P280 Wear protective gloves / eye protective	ection / face protection.
P264 Wash thoroughly after handling	vater for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this lab P332+P313 If skin irritation occurs: Get medic	hell
P337+P313 If eye irritation persists: Get medi	cal advice/attention.
National regulations This product is not listed in the U.S. <u>Environmental P</u>	Protection Agency, Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restri
to research and development only. This product mus product must not be used for commercial purposes of	st be used by or directly under the supervision of a technically qualified individual as defined by ISCA. This
This product is not listed on the Canadian Domestic SARA Section 313 (specific toxic chemical listing	Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL)
California Proposition 65 Prop 65 - Chemicals known to cause cancer Subs	
Prop 65 - Developmental toxicity Substance is not	t listed.
Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance	e is not listed
Information about limitation of use: For use only b Other regulations, limitations and prohibitive reg	by technically qualified individuals
Substance of Very High Concern (SVHC) according	ing to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. le 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
market and use must be observed.	e of and Annex XVII of the Regulation (EC) No 1907/2000 (REACH) for the manufacturing, placing of
Substance is not listed. Annex XIV of the REACH Regulations (requiring)	Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety A	Assessment has not been carried out.
Other information	non-out to other information actioned by them, and abauld make independent independent of a vitability of this
information to ensure proper use and protect the hea	plement to other information gathered by them, and should make independent judgement of suitability of this alth and safety of employees. This information is furnished without warranty, and any use of the product not
conformance with this Safety Data Sheet, or in comb Department issuing SDS: Global Marketing Depart	bination with any other product or process, is the responsibility of the user.
Date of preparation/Revision: Print date, revision of	date and version number are in the header of each page.
Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuse MAC: Interpreting Unaritime Condition Desparation Conditions	es par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
DOT: US Department of Transportation IATA: International Air Transport Association	
CAS: Chemical Abstracts Service (division of the American Chemical HMIS: Hazardous Materials Identification System (USA)	Society)
WHMIS: Workplace Hazardous Materials Information System (Canada LC50: Lethal concentration, 50 percent LD50: Lethal doce, 50 percent	a)
PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern	
vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists ((USA)
DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada LC50: Lethal concentration, 50 percent D50: Lethal cose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern PVPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Skin Inti: 2: Skin corroison/irritation – Category 2A Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
EPA: Environmental Protection Agency (USA) Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	