

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: Di-n-propyImalonic acid Stock number: L06904 CAS Number: 1636-27-7 EC number: 216-664-1 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. Inerrito Fisher Scheman C. 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) ! GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory 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. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 WHMIS classification D2B - Toxic material causing other toxic effects Ţ Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammàbility = 1 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: 1636-27-7 Di-n-propyImalonic acid Identification number(s): EC number: 216-664-1 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. (Contd. on page 2)

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After swallowing Seek medical treatme Information for doctor Most important symptoms and effects	r several minutes under running water. Then consult a doctor. ent. s, both acute and delayed No further relevant information available. sttention and special treatment needed No further relevant information available.	(Contd. of page 1)	
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the fol Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. t ance or mixture lowing can be released:		
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. Methods and material for containment and cleaning up: Ensure adequate ventilation. 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.			
Conditions for safe storage, including Storage Requirements to be met by storeroom	». explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. nditions:		
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: Not required. Additional information: No data			
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 stin. 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. Penetration time of glove material (in minutes) Not determined 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:	White Not determined		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	154-156 °C (309-313 °F) Not determined Not determined		
Flash point: Flammability (solid, gaseous) Ignition temperature:	Not applicable Not determined.		
Ignition temperature:	Not determined	(Contd. on page 3)	

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Product name: Di-n-propyImalonic a	cid	
		(Contd. of page 2)
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density	Product does not present an explosion hazard. Not determined Not determined Not determined Not determined Not determined.	
Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not applicable. Not applicable. Slightly soluble	
Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined. Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recomr Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing ager Hazardous decomposition products: 0	information available. ts	
Reproductive foxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	in irritation. ious eye irritation. wm. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. • repeated exposure: No effects known. • single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No further Bioaccumulative potential No further n Mobility in soil No further relevant inforn Additional ecological information: General notes: Do not allow material to be released to th Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant	er relevant information available. elevant information available. mation available. ne environment without proper governmental permits. uantities to reach ground water, water course or sewage system.	
13 Disposal considerations Waste treatment methods		
Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	r national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information Not a hazardous material for transportati	on.	
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.	
	II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contd. on page 4,

(Contd. on page 4) USA

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DOT	
Marine Pollutant (DOT):	No
5 Regulatory information	
Safety, health and environmental regulations	/legislation specific for the substance or mixture nd labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P305+P351+P338 IF IN EYES: Rinše cautiously P304+P340 IF INHALED: Remove persor	as/mist/vapours/spray. ctive clothing/eye protection/face protection. r with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. n to fresh air and keep comfortable for breathing.
P501 Dispose of contents/containe	r in accordance with local/regional/national/international regulations.
National regulations This product is not listed in the U.S. Environmen to research and development only. This product product must not be used for commercial purpos SARA Section 313 (specific toxic chemical lis California Proposition 65	
Prop 65 - Chemicals known to cause cancer 3 Prop 65 - Developmental toxicity Substance is Prop 65 - Developmental toxicity, female Subst Prop 65 - Developmental toxicity, male Subst Information about limitation of use: For use o Other regulations, limitations and prohibitive Substance of Very High Concern (SVHC) acc The conditions of restrictions according to A market and use must be observed.	s not listed. stance is not listed. nly by technically qualified individuals.
Substance is not listed. Annex XIV of the REACH Regulations (requir Chemical safety assessment: A Chemical Safet	ing Authorisation for use) Substance is not listed. ety Assessment has not been carried out.
information to ensure proper use and protect the	supplement to other information gathered by them, and should make independent judgement of suitability of this health and safety of employees. This information is furnished without warranty, and any use of the product not in et, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing De Date of preparation / last revision 11/23/2015 Abbreviations and acronyms: RID: Reglement international concernant le transport des march ATA-DGR: Dangerous Goods Regulations by the "International	/ -
ATA-DGR: Dangerous Goods Regulations by the "International IATA-DGR: Dangerous Goods Regulations by the "International ICAO-T: Technical Instructions by the "International Civil Aviatic IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical CAS: Chemical Abstracts Service (division of the American Che HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (C ICSE): International Service (division of the American Che ICSE): International Air Transport Association	n Organization" (ICAO) Substances mical Society)
WHMIS: Workplace Hazardous Materials Information System (C LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent vPvB; very Persistent and very Bioaccumulative	anada)
WHMIS: Workplace Hazardous Materials Information System (C LCS0: Lethal concentration, 50 percent LD50: Lethal cose, 50 percent VPW: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygie OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	nists (USA)
EPA: Environmental Protection Agency (USA)	- USA