



1 Identification Product identifier Product name: Diethyl iminodiacetate Stock number: H60608 **CAS Number:** 6290-05-7 EC number: 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 TIVITY 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: 6290-05-7 Diethyl iminodiacetate Identification number(s): EC number: 228-533-6 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.

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Boiling point/Boiling range:

208 °C (406 °F)

(Contd. of page 1) 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 freatment 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 Nitrogen oxides (NOX) Advice for fireficience 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 Ensite adequate ventulation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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. 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 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. Do not inhale dust / smoke / mist Do not inhale dust / smoke / mist. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves The selection of suitable 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 Device the start of the work of a the second Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Liquid Not determined Odor: Odor threshold: Not determined pH-value: Not determined. Change in condition Melting point/Melting range: Not determined

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Product name: Diethyl iminodiacetate			
Sublimation tomporature / ataut	Not dotormined	(Contd. of page 2	
Sublimation temperature / start: Flash point:	Not determined 113 °C (235 °F)		
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined		
Decomposition temperature: Auto igniting:	Not determined Not determined		
Danger of explosion:	Not determined.		
Explosion limits: Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not determined		
Density at 20 °C (68 °F): Relative density	1.056 g/cm³ (8.812 lbs/gal) Not determined.		
Vapor density Evaporation rate	Not determined. Not determined.		
Solubility in / Miscibility with			
Water: Not determined Partition coefficient (n-octanol/water): Not determined. Viscourt for the second seco			
Viscosity: dynamic:	Not determined.		
kinematic: Other information	Not determined. No further relevant information available.		
10 Stability and reactivity Reactivity No information known.			
Chemical stability Stable under recommended storage conditions.			
Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents			
<b>Conditions to avoid</b> No further relevant Incompatible materials: Oxidizing age	ents		
Hazardous decomposition products: Carbon monoxide and carbon dioxide			
Nitrogen oxides			
11 Toxicological information			
Information on toxicological effects Acute toxicity: No effects known.			
LD/LC50 values that are relevant for Skin irritation or corrosion: Causes s			
Eye irritation or corrosion: Causes se	erious eye irritation.		
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.			
Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known.			
Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation.			
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects 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 information available. Persistence and degradability No further relevant information available.			
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.			
Additional ecological information: General notes:			
Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.			
Avoid transfer into the environment.			
PBT: Not applicable. vPvB: Not applicable.			
Other adverse effects No further relev	ant information available.		
13 Disposal considerations			
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal.			
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.			
14 Transport information UN-Number			
DOT, ADN, IMDG, IATA	Not applicable		
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable		
Transport hazard class(es)			
DOT, ADR, ADN, IMDG, IATA Class	Not applicable		
Packing group DOT, IMDG, IATA			
DOT, IMDG, IATA Environmental hazards:	Not applicable Not applicable.		
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Product name: Diethyl iminodiacetate			
	(Contd. of page 3)		
Special precautions for user Not a	applicable.		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.			
Transport/Additional information:			
DOT Marine Pollutant (DOT): No			
UN "Model Regulation": -			
15 Regulatory information			
Safety, health and environmental regulations/legislation specific for the substance or mixture 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 prote         P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Reme         P304+P340       IF INHALED: Remove person to fresh air and keep comfortable for         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/regional/na         National regulations       All components of this product are listed in the U.S. Environmental Protection Agency         All components of this product are listed on the Canadian Non-Domestic Substances         SARA Section 313 (specific toxic chemical listings) Substance is not listed.         Prop 65 - Chemicals known to cause cancer Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity, male Substance is not listed.         Prop 65 - Developmental toxicity and prohibitiv	breathing. tional/international regulations. Toxic Substances Control Act Chemical substance Inventory. List (NDSL). EC) No. 1907/2006. Substance is not listed. Ulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the		
<b>16 Other information</b> Employers should use this information only as a supplement to other information gath information to ensure proper use and protect the health and safety of employees. This conformance with this Material Safety Data Sheet, or in combination with any other pr	ered by them, and should make independent judgement of suitability of this s information is furnished without warranty, and any use of the product not in oduct or process, is the responsibility of the user.		
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concern DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Vorkplace Hazardous Materials Information System (Canada) LC50: Lethal dose Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent evpus: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	ing the International Carriage of Dangerous Goods by Road)		