



1 Identification Product identifier

Product name: n-Decyltriethoxysilane Stock number: L16965 CAS Number: 2943-73-9 EC number: 220-940-7 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. 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/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. P362 Take off contaminated clothing. P321 Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical advice/attention. P321 If skin irritation occurs: Get medical advice/attention. P332+P313 P337+P313 If eye irritation persists: Get medical advice/attention. WHMIS classification D2B - Toxic material causing other toxic effects Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammability = 1Physical 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: 2943-73-9 n-Decyltriethoxysilane Identification number(s): EC number: 220-940-7 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. (Contd. on page 2)

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After swallowing Seek medical treatme Information for doctor Most important symptoms and effects Indication of any immediate medical a	ent. 5, both acute and delayed No further relevant information available. Ittention 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 Silicon oxide 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. stance or mixture lowing can be released:	
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unproi Ensure adequate ventilation Environmental precautions: Do not all Methods and material for containmen Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on persona See Section 13 for disposal information.	tected persons away. ow material to be released to the environment without proper governmental permits. t and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sa special measures required.	wdust).
Conditions for safe storage, including Storage	explosions and fires: No information known. g any incompatibilities as and receptacles: No special requirements. mon storage facility: nditions:	
Control parameters Components with limit values that req Additional information: No data Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for he Keep away from foodstuffs, beverages a Remove all soiled and contaminated clou Wash hands before breaks and at the er Avoid contact with the eyes and skin. Maintain an ergonomically appropriate we Breathing equipment: Use suitable res Protection of hands: Impervious cloves	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. quire monitoring at the workplace: Not required. sures andling chemicals should be followed. ind feed. thing immediately. not of work. vorking environment. pirator when high concentrations are present. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) Not determined	
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:	Liquid Colorless Not determined Not determined.	
pH-value: Change in condition	Not determined.	
Melting point/Melting range: Boiling point/Boiling range:	Not determined 150 °C (302 °F) (8 mmHg)	(Contd. on page 3)
		USA USA

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		(Contd. of page 2
Sublimation temperature / start:	Not determined	
Flash point: Flashmability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	Product does not present an explosion hazard. Not determined Not determined 0.879 g/cm ³ (7.335 lbs/gal) Not determined. Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic: Other information	Not miscible or difficult to mix): Not determined. 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 to Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Silicon oxide	to be avoided: Decomposition will not occur if used and stored according to specifications. o dangerous reactions known nt information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Subacute to chronic toxicity:	skin irritation. erious eye irritation. nown. 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.	
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. 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. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be m		
Recommendation: Disposal must be n 14 Transport information Not a hazardous material for transportat		
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Packing group DOT, IMDG, IATA	None
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/7	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT	
Marine Pollutant (DOT):	No
15 Regulatory information	
Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled Hazard pictograms	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
$\langle \rangle$	
GHS07	
Signal word Warning Hazard statements	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
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P305+P351+P338 IF IN EYES: Rinse cautiously with water	er for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 Take off contaminated clothing. P321 Specific treatment (see on this label).	
P332+P313 If skin irritation occurs: Get medical advi P337+P313 If eye irritation persists: Get medical adv	vice/attention.
National regulations	
This product is not listed in the U.S. Environmental Protection to research and development only. This product must be us	tion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This
product must not be used for commercial purposes or in for	ormulations for commercial purposes.
SARA Section 313 (specific toxic chemical listings) Sub California Proposition 65	
Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity Substance is not listed.	is not listed.
Prop 65 - Developmental toxicity, temale Substance is no	not listed
Prop 65 - Developmental toxicity, male Substance is not Information about limitation of use: For use only by tech	t listed. hnically qualified individuals
Other regulations, limitations and prohibitive regulation	nically qualified individuals. NS
Substance of Very High Concern (SVHC) according to t The conditions of restrictions according to Article 67 a	ns the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th
market and use must be observed.	
Substance is not listed. Annex XIV of the REACH Regulations (requiring Author	risation for use) Substance is not listed.
Annex XIV of the REACH Regulations (requiring Author Chemical safety assessment: A Chemical Safety Assess	ment has not been carried out.
16 Other information	and the standard standard the standard standard standard standard standard standard standard standard standard
Employers should use this information only as a supplement information to ensure proper use and protect the health and	nt to other information gathered by them, and should make independent judgement of suitability of this Id safety of employees. This information is furnished without warranty, and any use of the product not in
conformance with this Material Safety Data Sheet, or in con	mbination with any other product 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:	
Abbreviations and acronyms:	rereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) t Association" (IATA) on" (ICAO))
RID: Règlement international concernant le transport des marchandises dange IATA-DGR: Dangerous Goods Regulations by the "International Air Transport .	reuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) Association" (IATA)
ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization	un" (ICAO)
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation	
IATA: International Alir Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances	N N N N N N N N N N N N N N N N N N N
HMIS: Hazardous Materials Identification System (USA)	
UTIONS. Workplace nazarous inateriais mornauon system (canada) LC50: Lethal concentration, 50 percent	
VPVB: very Persistent and very Bioaccumulative	
LDS0: Letinal dose, 30 percent VPUB: 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)	
IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	
	US