

1 Identification Product identifier

Product identifier	
Product name: n-Dodecyltriethoxysilane	
Stock number: L17293 CAS Number: 18536-91-9 EC number: 242-409-9 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)	
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. 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. P337+P313 If eye irritation persists: Get medical advice/attention. WHMIS classification D2B - Toxic material causing other toxic effects	
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Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I FIRE I FRE I REACTIVITY I 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: 18536-91-9 n-Dodecyltriethoxysilane Identification number(s): EC number: 242-409-9	
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 Immediatel weep with water and seen and rings thereweby.	
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)
	USA

n-Dodocyltriothoxysilano PI duct

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Product name: n-Dodecyltriethoxys	ilane		
After evellewing Cool, modical traction		(Contd. of page 1)	
After swallowing Seek medical treatme Information for doctor			
Most important symptoms and effects Indication of any immediate medical a	s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.		
E Eiro fighting moocuroo	· · · · · · · · · · · · · · · · · · ·		
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.		
If this product is involved in a fire, the fo	llowing can be released:		
Carbon monoxide and carbon dioxide Silicon oxide			
Advice for firefighters Protective equipment:			
Wear self-contained respirator. Wear fully protective impervious suit.			
6 Accidental release measures Personal precautions, protective equ	inmont and amorganou procedures		
Wear protective equipment. Keep unpro	tected persons away.		
Ensure adequate ventilation Environmental precautions: Do not all	low material to be released to the environment without proper governmental permits.		
Prevention of secondary hazards: No	n t and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, saw special measures required.	/dust).	
Reference to other sections See Section 7 for information on safe ha	andlina		
See Section 8 for information on person See Section 13 for disposal information.	al protection equipment.		
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7 Handling and storage Handling			
Precautions for safe handling Handle under dry protective gas.			
Keep container tightly sealed. Store in cool, dry place in tightly closed			
Ensure good ventilation at the workplace	e.		
Information about protection against Conditions for safe storage, including	explosions and fires: No information known.		
Storage			
Information about storage in one con	ns and receptacles: No special requirements. nmon storage facility:		
Store away from oxidizing agents. Store away from water/moisture.			
Further information about storage co Store under dry inert gas.	nditions:		
This product is moisture sensitive. Keep container tightly sealed.			
Store in cool, dry conditions in well seal Protect from humidity and water.	ed containers.		
Specific end use(s) No further relevant	t information available.		
8 Exposure controls/personal prote	ection		
Additional information about design of	of technical systems:		
Control parameters	designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.		
Components with limit values that red Additional information: No data	quire monitoring at the workplace: Not required.		
Exposure controls			
Personal protective equipment General protective and hygienic mea	sures		
The usual precautionary measures for h	andling chemicals should be followed		
Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash bands before brocks and at the o	thing immediately.		
Avoid contact with the eves and skin.	Wash hands before breaks and at the end of work. Avoid contact with the eves and skin.		
Breathing equipment: Use suitable res	vorking environment. spirator when high concentrations are present.		
Protection of hands: Impervious gloves			
Check protective gloves prior to each us The selection of suitable gloves not only	se for their proper condition. / depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.		
Penetration time of glove material (in Eye protection: Safety glasses	minutes) Not determined		
Body protection: Protective work cloth	ing.		
9 Physical and chemical properties			
Information on basic physical and ch General Information	emical properties		
Appearance: Form:	Liquid		
Color: Odor:	Colorless Not determined		
Odor: Odor threshold:	Not determined Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/Melting range:	Not determined		
Boiling point/Boiling range:	152-153 °C (306-307 °F) (3mm Hg)	(Contd. on page 2)	
		(Contd. on page 3) USA	

Product name: n-Dodecvltriethoxvsilane

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Product name: n-Dodocy/tricthoyusi				
Product name: n-Dodecyltriethoxysi	lane	(Oracid of page 2)		
Sublimation temperature / start:	Not determined	(Contd. of page 2)		
Flash point: Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	> 110 °C (> 230 °F) Not applicable. 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 Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water):	Product does not present an explosion hazard. Not determined Not determined 0.89 g/cm³ (7.427 lbs/gal) Not determined. Not determined. Not determined. Not determined. Not miscible or difficult to mix			
Viscosity: Viscosity: dynamic: kinematic: Other information	: Not determined. Not determined. 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 No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Silicon oxide				
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. 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. 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 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 Transport bazard class(cc)	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.			
		(Contd. on page 4) USA		

	Reviewed on 01/10/2012			
Product name: n-Dodecyltriethoxysilane				
	(Contd. of page 3)			
Special precautions for user	Not applicable.			
Transport in bulk according to Annex II of MARPO	DL73/78 and the IBC Code Not applicable.			
Transport/Additional information:				
DOT Marina Ballutant (DOT):	No			
Marine Pollutant (DOT): UN "Model Regulation":				
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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				
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GHS07				
Signal word Warning				
Hazard statements H315 Causes skin irritation.				
H319 Causes serious eye irritation. Precautionary statements				
P280 Wear protective gloves/protective g	clothing/eye protection/face protection. 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 laber P332+P313 If skin irritation occurs: Get medica	el). Il advice/attention			
P337+P313 If eye irritation persists: Get medica National regulations	al advice/attention.			
All components of this product are listed in the U.S. E	nvironmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.			
All components of this product are listed on the Canac SARA Section 313 (specific toxic chemical listings	dian Non-Domestic Substances List (NDSL). s) Substance is not listed.			
California Proposition 65				
Prop 65 - Chemicals known to cause cancer Subst. Prop 65 - Developmental toxicity Substance is not li	isted.			
Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance	e is not listed. is not listed			
Information about limitation of use: For use only by	/ technically qualified individuals.			
Other regulations, limitations and prohibitive regu Substance of Very High Concern (SVHC) accordin	lations g to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.			
The conditions of restrictions according to Article market and use must be observed.	g to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the			
Substance is not listed.				
Annex XIV of the REACH Regulations (requiring A Chemical safety assessment: A Chemical Safety As	uthorisation for use) Substance is not listed. ssessment has not been carried out.			
16 Other information Employers should use this information only as a supplete the supplete the supplete th	lement to other information gathered by them, and should make independent judgement of suitability of this			
information to ensure proper use and protect the healt	lement to other information gathered by them, and should make independent judgement of suitability of this th and safety of employees. This information is furnished without warranty, and any use of the product not in in combination with any other product or process, is the responsibility of the user.			
Department issuing SDS: Global Marketing Department				
Date of preparation / last revision 11/24/2015 / -				
Abbreviations and acronyms: RD: Règlement international concernant le transport des marchandises ICAO: Internetional Civil Avietien	s dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)			
ICAU: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses IMDG: International Maritime Code for Dengarque Goode	s par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)			
ADIX-Account europeen sun re transport des matchandises dangereuses IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substan CAS: Chemical Abstracts Service (division of the American Chemical Si				
EINECS: European Inventory of Existing Commercial Chemical Substar CAS: Chemical Abstracts Service (division of the American Chemical Su	nces ociety)			
HMIS: Hezardous Materials Johnson on the Ali Portan Orichman of HMIS: Hezardous Materials Identification System (USA) WHMIS: Workplace Hezardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent				
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent				
ACGIH: American Conference of Governmental Industrial Hygienists (U OSH4: Occurational Softward Hackh Administration (USA)	ISA)			
LDS0: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (U OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)				
EPA: Environmental Protection Agency (USA)	USA			