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	Version 1
1	Identification
	Product identifier Product name: n-Tetradecane
	Stock number: A14672
	CAS Number: 629-59-4
	EC number:
	211-096-0 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)
	GHS08 Health hazard
	Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
	GHS07
	STOT SE 3 H336 May cause drowsiness or dizziness. 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 GHS08
	Signal word Danger Hazard statements
	H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways.
	Drocautionary statements
	P261 Avoid breathing dustriume/gas/mist/vapors/spray P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
	P261 Avoid breathing dust/fume/gas/mist/vapors/spray P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor if you feel unwell.
	P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
	WHMIS classification Not controlled Classification system
	HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
	Health (acute effects) = 2 FIRE Flammability = 1 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: CAS The characterization of the characterizati
	629-59-4 n-Tétradecane Concentration: ≤100%
	Identification number(s): EC number: 211-096-0
	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
	Inmediately 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

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After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)			
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 Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. Prevention of secondary hazards: Keep away from ignition sources. 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: 3.1 ppm PAC-3: 200 ppm				
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. 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. 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 determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as I CEN (EU). 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. Material of gloves Mitrile rubber, NBR Penetration time of glove material (in minutes) 480	performed to VIOSH (USA) or			
Glove thickness: 0.4 mm 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 chemical properties				
General Information Annual				
'Form: Liquid Odor: Mild				
	(Contd. on page 3) USA			

Safety Data Sheet

Product name: n-Tetradecane

Product name: n-Tetradecane					
(Contd. of page 2)					
Odor threshold:	Not determined.				
pH-value:	Not applicable.				
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	6 °C (43 °F) 252-254 °C (486-489 °F) Not determined				
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	99 °C (210 °F) Not determined. 201 °C (394 °F) Not determined Not determined.				
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F):	Not determined. 0.5 Vol % Not determined Not applicable. 0.763 g/cm³ (6.367 lbs/gal)				
Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not determined. Not applicable. Not applicable. Insoluble				
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 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 Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide					
11 Toxicological information Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance. 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 drowsiness or dizziness. Aspiration hazard: May be fatal if swallowed and enters airways. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. 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 undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. wPvB: 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, ADR, ADN, IMDG, IATA Not applicable

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Product name: n-Tetradecane

		(Contd. of page 3)
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	Not applicable.	
Transport in bulk according to Annex II of MARPOL7	3/78 and the IBC Code Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	Not applicable	

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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 Precautionary statements

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National regulations
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.
All components of this product are listed on the Canadian Domestic Substances List (DSL).
SARA Section 313 (specific toxic chemical listings) Substance is not listed.
California Proposition 65
Prop 65 - Chemicals known to cause cancer Substance is not listed.
Prop 65 - Developmental toxicity, substance is not listed.
Prop 65 - Developmental toxicity, female Substance is not listed.
Prop 65 - Developmental toxicity, male Substance is not listed.
Prop 65 - Developmental toxicity, substance is not listed.
Prop 65 - Developmental toxicity, female Substance is not listed.
Prop 65 - Developmental toxicity, female Substance is not listed.
Prop 65 - Developmental toxicity, and Substance is not listed.
Prop 65 - Developmental toxicity, and Substance is not listed.
Prop 65 - Developmental toxicity, and Substance is not listed.
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Prop 65 - Developmental toxicity and Substance Substanc market and use must be observed.

Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Department issuing SDS: Global Marketing Department

Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date and version number are in the header of each page. Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent PBT: Persistent, Bioeccumulative and Toxic SVHC: Substances of Very High Concern VPWB: 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) IATA: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1

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