



1 Identification Product identifier

Product name: Di-n-hexyl sulfide

Stock number: B22325, L05288 CAS Number: 6294-31-1 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) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.

I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Health (acute effects) = 1 Flammability = 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: 6294-31-1 Di-n-hexyl sulfide Identification number(s): EC number: 228-556-1

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. 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 treatment 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 Sulfur oxides (SOx) 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 material to be released to the environment without proper governmental permiss. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). (Contd. on page 2) USA

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Danger of explosion: Product does not present an explosion hazard. Explosion limits: Image: Constraint of the explosion hazard. Lower: Not determined Upper: Not determined Vapor pressure: Not determined Density at 20 °C (68 °F): 0.849 g/cm³ (7.085 lbs/gal) Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Not determined. Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined. Not determined.	Danger of explosion: Product does not present an explosion hazard. Explosion limits: Not determined Lower: Not determined Vapor pressure: Not determined Density at 20 °C (68 °F): 0.849 g/cm³ (7.085 lbs/gal) Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Not determined. Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined. dynamic: Not determined. Mot determined. Not determined. Mater: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined. dynamic: Not determined. Mater Not determined. Mot determined. Not determined.	Decomposition temperature:	Not determined		
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Upper: Not determined Vapor pressure: Not determined Density at 20 °C (68 °F): 0.849 g/cm³ (7.085 lbs/gal) Relative density Not determined. Vapor density Not determined. Vapor density Not determined. Solubility in / Miscibility with Not determined. Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined.	Upper: Not determined Vapor pressure: Not determined Density at 20 °C (68 °F): 0.849 g/cm³ (7.085 lbs/gal) Relative density Not determined. Vapor density Not determined. Viscosity: Not miscible or difficult to mix Viscosity: Not determined. dynamic: Not determined. kinematic: Not determined.	Explosion limits:			
Vapor pressure: Not determined Density at 20 °C (68 °F): 0.849 g/cm³ (7.085 lbs/gal) Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Water: Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined.	Vapor pressure: Not determined Density at 20 °C (68 °F): 0.849 g/cm³ (7.085 lbs/gal) Relative density Not determined. Vapor density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Water: Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined. dynamic: Not determined. kinematic: Not determined.				
Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Not miscible or difficult to mix Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined. Not miscible or difficult to mix	Relative density Not determined. Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Not miscible or difficult to mix Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined. dynamic: Not determined. kinematic: Not determined.	Vapor pressure:	Not determined		
Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined.	Vapor density Not determined. Evaporation rate Not determined. Solubility in / Miscibility with Not miscible or difficult to mix Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined. dynamic: Not determined. kinematic: Not determined.	Relative density	Not determined.		
Solubility in / Miscibility with Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined.	Solubility in / Miscibility with Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: Not determined. kinematic: Not determined.	Vapor density	Not determined.		
Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined.	Water: Not miscible or difficult to mix Partition coefficient (n-octanol/water): Not determined. Viscosity: Not determined. dynamic: Not determined. kinematic: Not determined.	Solubility in / Miscibility with			
	dynamic: Not determined. kinematic: Not determined.	Water: Partition coefficient (n-octanol/water): Viscosity:	Not determined.		
dynamic: Not determined.		dynamic:			
Other information No further relevant information available.	Other information 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.

(Contd. on page 3)

Product name: Di-n-hexyl sulfide		
		(Contd. of page 2)
Incompatible materials: No information known. Hazardous decomposition products:		
Carbon monoxide and carbon dioxide		
Sulfur oxides (SOx)		
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: May cause irritation Eye irritation or corrosion: May cause irritation		
Sensitization: No sensitizing effects known.		
Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this mat	erial is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects know	wn	
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	e 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 govern	mental nermits.	
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		
Waste treatment methods Recommendation Consult state, local or national regulations to ensure prope	r disposal.	
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.		
14 Transport information UN-Number		
DOT, IMDG, IATA	UN3334	
UN proper shipping name DOT, IMDG, IATA	Aviation regulated liquid, n.o.s. (Di-n-hexyl sulfide)	
Transport hazard class(es)	Aviation regulated liquid, 11.0.5. (הייוש) Sullide	
DOT, IMDG, IATA		
۲. All and a second		
Class	9 Miscellaneous dangerous substances and articles.	
Label	9	
Class Label	9 (M11) Miscellaneous dangerous substances and articles 9	
Packing group DOT, IMDG, IATA	Natania	
DOT, IMDG, IATA Environmental hazards:	Not applicable Not applicable.	
Special precautions for user	Warning: Miscellaneous dangerous substances and articles	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod		
Transport/Additional information:		
DOT Marina Ballutant (DOT):	λ <i>ι</i>	
Marine Pollutant (DOT): UN "Model Regulation":	No UN3334, Aviation regulated liquid, n.o.s. (Di-n-hexyl sulfide), 9	
	UN3337, Aviation regulated liquid, n.o.s. (211 noxy) duined, o	
15 Regulatory information		
Safety, health and environmental regulations/legislation specific for the s	substance or mixture	
GHS label elements Not applicable Hazard pictograms Not applicable		
Signal word Not applicable Hazard statements Not applicable		
National regulations		
All components of this product are listed in the U.S. Environmental Protection All components of this product are listed on the Canadian Non-Domestic Subs	tances List (NDSL).	
SARA Section 313 (specific toxic chemical listings) Substance is not listed	l.	
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, male Substance is not listed. **Information about limitation of use:** For use only by technically qualified individuals.

Product name: Di-n-hexyl sulfide

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(Contd. of p Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing of 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 the 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 no conformance with this Material Safety Data Sheet, or 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 11/23/2015 / -	is ₫ in
Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICA: International Civil Aviation Organization 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 Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hozardous Materials Identification System (USA) WHMINS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent UPS: Very Persistent and very Bioaccumulative ACGIH: American Cale feature Industrial Hygienists (USA) OSHA: Occupational Safety of Research on Classical NTP: National Safety of Research on Classical NTF: National Safety of Research on Classical	

IARC: International Agency for Research on Ca EPA: Environmental Protection Agency (USA)

USA