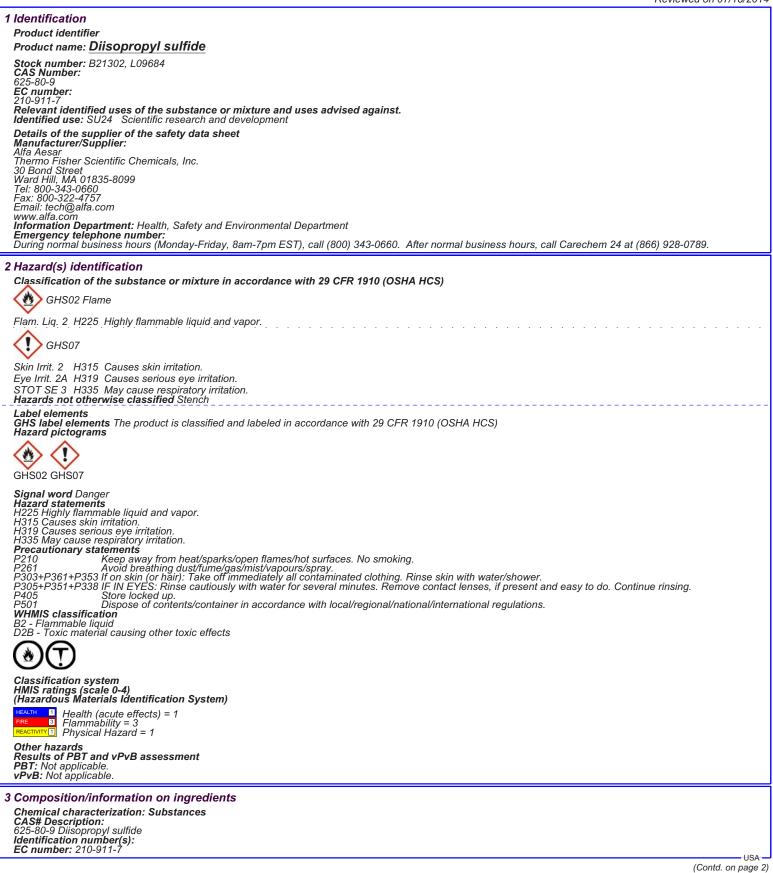


## Safety Data Sheet per OSHA HazCom 2012



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<ul> <li>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.</li></ul>	
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) Hydrogen sulfide 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 Keep away from ignition sources Environmental precautions: Do not allow product to reach sewage system or any water course. 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: Keep away from ignition sources. Reference to other sections See Section 7 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: Protect against electrostatic charges. Furdes can combine with air to form an explosive mixture. Keep ignition sources away. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: Store in a cool location. 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 Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodsfulfis, 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. 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 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. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.	

## Product name: Diisopropyl sulfide

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9 Physical and chemical properties	3	
Information on basic physical and ch General Information	nemical properties	
Appearance: Form:	Liquid	
Odor:	Stench	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 119-120 °C (246-248 °F) Not determined	
Flash point: Flammability (solid, gaseous)	7 °C (45 °F) Not determined.	
Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined.	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not determined	
Density at 20 °C (68 °F):	0.814 g/cm³ (6.793 lbs/gal)	
Relative density` Vapor density	Not determined. Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
Partition coefficient (n-octanol/water)		
Viscosity:	Not determined.	
dynamic: kinematic:	Not determined.	
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recom.	mandad starage conditions	
Thermal decomposition / conditions to Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOX) Hydrogen sulfide	<b>to be avoided:</b> Decomposition will not occur if used and stored according to specifications. aacts with strong oxidizing agents t information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity	kin irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant int Persistence and degradability No further Bioaccumulative potential No further relevant Mobility in soil No further relevant infor Additional ecological information: General notes: Avoid transfer into the e Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	relevant information available. rmation available. environment. t	
<b>13 Disposal considerations</b> Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information		
UN-Number		
DOT, IMDG, IATA	UN1993	(Contra an internet)
		(Contd. on page 4

## Safety Data Sheet per OSHA HazCom 2012

Product name: Diisopropyl sulfide	
····· ,	(Contd. of page 3
UN proper shipping name DOT MDC LATA	Flammable liguids, n.o.s. (Diisopropyl sulfide) FLAMMABLE LIQUID, N.O.S. (Diisopropyl sulfide)
IMDG, IATA Transport hazard class(es)	FLAMMABLE LIQUID, N.O.S. (Diisopropyi suitiae)
DOT	
Class Label	3 Flammable liquids.
Class Label	3 (F1) Flammable liquids
IMDG, IATA	3
Class Label	3 Flammable liquids. 3
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user EMS Number:	Warning: Flammable liquids F-E,S-E
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co	ode Not applicable.
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN1993, Flammable liquids, n.o.s., special provision 640D (Diisopropyl sulfide), 3,
H315 Căuses skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. <b>Precautionary statements</b> P210 Keep away from heat/sparks/open flames/hot surfaces. No P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated o	clothing. Rinse skin with water/shower
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minute P405 Store locked up.	es. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local/reg 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 Domestic Substanc SARA Section 313 (specific toxic chemical listings) Substance is not listed California Proposition 65	Agency Toxic Substances Control Act Chemical substance Inventory. Ses List (DSL). d.
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.	
Information about limitation of use: For use only by technically qualified inc Other regulations, limitations and prohibitive regulations	dividuals. Iations (EC) No. 1907/2006. Substance is not listed. the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) S Chemical safety assessment: A Chemical Safety Assessment has not been	
16 Other information Employers should use this information only as a supplement to other informat	tion gathered by them, and should make independent judgement of suitability of this ees. This information is furnished without warranty, and any use of the product not in when we dust are recovering the recovering the second second second second second second second second second s
conformation to ensure proper use and protect the health and safety of employed conformance with this Material Safety Data Sheet, or in combination with any	orner product or process, is the responsibility of the user.
conformance with this Material Safety Data Sheet, or in combination with any Department issuing SDS: Global Marketing Department	
conformance with this Material Safety Data Sheet, or in combination with any Department issuing SDS: Global Marketing Department	
conformance with this Material Safety Data Sheet, or in combination with any Department issuing SDS: Global Marketing Department	
conformance with this Material Safety Data Sheet, or in combination with any	

## Product name: Diisopropyl sulfide

LD50: Lethal dose, 50 percent vPvB: 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)

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USA