

Safety Data Sheet per OSHA HazCom 2012

1 Identification

Product identifier Product name: 3,3'-Diaminodiphenyl sulfone

Stock number: L11400 CAS Number: 599-61-1 EC number: 209-967-5 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) = 1Flammability = 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: 599-61-1 3.3'-Diaminodiphenyl sulfone Identification number(s): EC number: 209-967-5

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: It this product is involved in a life, the Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Sulfur oxides (SOx) **Advice for firefighters Protective equipment:** Wear self-contained respirator. Wear suit, protective impensious suit

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

Methods and material for containment	sulfone	
Methods and material for containment		
Prevention of secondary hazards: No s Reference to other sections See Section 7 for information on safe han See Section 8 for information on persona See Section 13 for disposal information.	special measūres required. ndlina	(Contd. of page 1,
Conditions for safe storage, including Storage Requirements to be met by storerooms	explosions and fires: No information known. any incompatibilities as and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. aditions: aditions:	
8 Exposure controls/personal protect Additional information about design of Properly operating chemical fume hood d	ection	
Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measu The usual precautionary measures for ha Keep away from foodstuffs, beverages ar Remove all soiled and contaminated cloth Wash hands before breaks and at the end Maintain an ergonomically appropriate wo Breathing equipment: Use suitable resp Protection of hands: Impervious gloves Check protective gloves prior to each use	andling chemicals should be followed. nd feed. hing immediately. d of work. orking environment. oirator 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	
Body protection: Protective work clothin	ıg.	
Color:		
Odor threshold:	Not determined.	
	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	171-174 °C (340-345 °F) Not determined Not determined	
Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not applicable Not determined. Not determined Not determined Not determined.	
Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density	Product does not present an explosion hazard. Not determined Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not applicable.	
Solubility in / Miscibility with	Insoluble	

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

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Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Sulfur oxides Sulfur oxides (SOX) Hydrogen cyanide Possibly Hydrogen cyanide (HCN)		(Contd. of page 2)
11 Toxicological information		
Information on toxicological effects Acute toxicity: No effects known.		
LD/LC50 values that are relevant for classification:		
Oral LD50 4920 mg/kg (rat) 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 mater Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known Specific target organ system toxicity - single exposure: No effects known. Subjection hazard: No effects known. Subjection to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute a	1.	
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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 governme 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.	ental permits.	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper of Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	disposal.	
14 Transport information Not a hazardous material for transportation.		
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)	None	
DOT, ADR, IMDG, IATA		
Class Packing group	None	
DOT, IMĎG, IÁTA	None	
Environmental hazards:	Not applicable.	
Special precautions for user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	
Transport in bulk according to Annex if of MARPOL73/78 and the IBC Code Transport/Additional information:	Not applicable. Not dangerous according to the above specifications.	
DOT		
Marine Pollutant (DOT):	No	
15 Regulatory information		
Safety, health and environmental regulations/legislation specific for the sur GHS label elements Not applicable Hazard pictograms Not applicable Hazard statements Not applicable Hazard statements Not applicable National regulations All components of this product are listed in the U.S. Environmental Protection Ag All components of this product are listed on the Canadian Non-Domestic Substa SARA Section 313 (specific toxic chemical listings) Substance is not listed.		<i>د</i>
California Proposition 65 Prop 65 - Chemicals known to cause cancer 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. Information about limitation of use: For use only by technically qualified individuals.

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Product name: 3,3'-Diaminodiphenyi sulfone	
Other regulations, limitations and prohibitive regulations 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 manufactur 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.	(Contd. of page 3) ring, placing on the
16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement o information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use o conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	of suitability of this of the product not in
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: RD: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) 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 Substances CAS: Chemical Jostration, 50 percent LDSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 50 percent LDSO: Lethal and very Bioaccumulative ACGII: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Zefety and Health Administration (USA) NTP: National Corcentrate) for Reneat Concer EPA: Environmental Percent of Neuroparation State of Cancer EPA: Environmental Percent of Concernent LPSO: Lethal does, 50 percent LDSO: Lethal does, 50 percent LDSO: Lethal does, 50 percent CAS: Chemical Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)	

EPA: Environmental Protection Agency (USA)

USA