

Safety Data Sheet per OSHA HazCom 2012

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1 Identification	
Product identifier Product name: 2,6-Diaminotoluene	
Stock number: L04278 CAS Number:	
823-40-5 EC number:	
212-513-9 Index number:	
612-111-00-7 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
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 Eax: 800-322-4757	
Fax: 600-522-41.07 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) 926	8-0789.
2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS08 Health hazard	
Wita. 2 H341 Suspected of causing genetic defects.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed.	
Acute Tox. 4 H312 Harmful in contact with skin. Skin Sens. 1 H317 May cause an allergic skin reaction. Hazards not otherwise classified No information known.	
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 Warning Hazard statements	
H302+H312 Harmful if swallowed or in contact with skin. H317 May cause an allergic skin reaction.	
H341 Suspected of causing genetic defects	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell.	
P301+P312 IF SWALLOWED: 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	
D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 FIRE 1 FRACTIVITY 1 Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT : Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
823-40-52,6-Diaminotoluene Identification number(s):	
EC number: 212-513-9	(Contd. on page 2)
	USA

(Contd. of page 1) Index number: 612-111-00-7 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 Mact important symptoms and offects, both acute and delayed No further relevant information ave 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 Nitrogen oxides (NOx) 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 permits. Methods and material for containment and cleaning up: Dispose of contaminated material as waste according to section 13. **Revention of secondary hazards:** No special measures required. **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. 7 Handling and storage Handling Precautions for safe handling Precautions for sare nanoung 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: Do not store together with acids. 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: 823-40-5 2,6-Diaminotoluene (100.0%) REL (USA) See Pocket Guide App. A Additional information: No data Exposure controls Personal protective equipment 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. Avoid contact with the eyes and skin. 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 type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves

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

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Product name: 2,6-Diaminotoluene

Body protection: Protective work clothing.

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Body protection: Protective work cloth	ing.	(Conta: or page 2)	
9 Physical and chemical properties			
Information on basic physical and chemical properties			
General Information Appearance:			
Form: Color:	Powder Dark grey		
Odor: Odor threshold:	Not determined Not determined.		
pH-value:	Not applicable.		
Change in condition			
Melting point/Melting range: Boiling point/Boiling range:	104-106 °C (219-223 °F) Not determined		
Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.		
Ignition temperature:	Not determined		
Decomposition temperature: Auto igniting:	Not determined Not determined.		
Danger of explosion:	Not determined.		
Explosion limits: Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not applicable.		
Density: Relative density	Not determined Not determined.		
Vapor density	Not applicable.		
Evaporation rate Solubility in / Miscibility with	Not applicable.		
Water at 15 °C (59 °F): Partition coefficient (n-octanol/water)	60 g/l): Not determined.		
Viscosity: dynamic:	Not applicable.		
kinematic: Other information	Not applicable. No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known. Chemical stability Stable under recom	mended storage conditions.		
Thermal decomposition / conditions	nmended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications. eacts with strong oxidizing agents		
Conditions to avoid No further relevan	at information available.		
Incompatible materials: Acids			
Oxidizing agents Hazardous decomposition products:	Oxidizing agents		
Carbon monoxide and carbon dioxide Nitrogen oxides			
11 Toxicological information			
11 Toxicological information Information on toxicological effects			
Acute toxicity: Harmful in contact with skin.			
Harmful if swallowed.			
Danger through skin absorption. The Registry of Toxic Effects of Chemic	cal Substances (RTECS) contains acute toxicity data for this substance.		
LD/LC50 values that are relevant for Skin irritation or corrosion: Irritant to			
Eye irritation or corrosion: Irritating e Sensitization: May cause an allergic si	ffect		
Germ cell mutagenicity: Suspected of causing genetic defects.			
The Registry of Toxic Effects of Chemic	Suspected of causing genetic defects. The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.		
Carcinogenicity: No classification data Reproductive toxicity: No effects know	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.		
Specific target organ system toxicity	r - repeated exposure: No effects known.		
Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect			
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 in Persistence and degradability No furt	ther relevant information available.		
Bioaccumulative potential No further Mobility in soil No further relevant info	relevant information available.		
Ecotoxical effects:			
Remark: Toxic for aquatic organisms Additional ecological information:			
	the environment without proper governmental permits.		
Toxic for aquatic organisms			
Danger to drinking water if even extrem Also poisonous for fish and plankton in	ater, water course or sewage system, even in small quantities. lely small quantities leak into the ground. water bodies.		
Toxic to aquatic life. May cause long lasting harmful effects			
		(Contd. on page 4) USA	

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disposal.		
UN2811		
RQ Toxic solids, organic, n.o.s. (2,6-Diaminotoluene) TOXIC SOLID, ORGANIC, N.O.S. (2,6-Diaminotoluene)		
6.1 Toxic substances. 6.1 6.1 (T2) Toxic substances 6.1		
6.1 Toxic substances. 6.1		
Environmentally hazardous substance, solid		
Warning: Toxic substances F-A,S-A		
EMS Number: F-A,S-Ă Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information:		
10 lbs, 4.54 kg No		
UN2811, Toxic solids, organic, n.o.s. (2,6-Diaminotoluene), 6.1, III		
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 W		
ection. nwell. tional/international regulations. Agency Toxic Substances Control Act Chemical substance Inventory. s List (DSL). viduals. tions (EC) No. 1907/2006. Substance is not listed. te Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the bstance is not listed.		

Product name: 2,6-Diaminotoluene

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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. 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 / Abbreviations and acronyms:
RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: 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)
ICAO: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
IATA: International Air Transport Association
ENNECS: Curopean Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: 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)
IMF: National Toxicology Program (USA)
IAF: Netronal Toxicology Program (USA)
IAF: Accupational Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)

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