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1 Identification	
Product identifier Product name: 2,3-Diaminonaphthalene	
Stock number: A12993	
CAS Number: 771-97-1	
EC number: 212-241-0	
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	
Carc. 1A H350 May cause cancer.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin.	
Acute Tox. 4 H332 Harmful if inhaled.	
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. 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	
Hāzard statements H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.	
H315 Causes skin irritation. H319 Causes serious eye irritation. H350 May cause cancer.	
H350 May cause cancer. H335 May cause respiratory irritation. Precautionary statements	
P201 Obtain special instructions before use. P261 Avoid breathing dust/fume/gas/mist/vapors/spray	
P200 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
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 D2A - Very toxic material causing other toxic effects	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2	
FIRE I REACTIVITY II Physical Hazard = 1	
Other hazards Posults of PBT and VPVB assessment	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable	
vPvB: Not applicable.	USA

	(Contd. of page 1)
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
771-97-1 2,3-Diaminonaphthalene Concentration: ≤100% Identification number(s):	
EC number: 212-241-0	
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 Causes skin irritation.	
Harmful if swallowed. Causes serious eye irritation. Harmful if inhaled.	
Harmful in contact with skin. May cause cancer.	
Suspected of causing cancer by inhalation. 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	
Special nazards 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 firefiahters	
Protective equipment: Wear self-contained respirator. Wear fully 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. Environmental values values values and values and values and values value	
Ensure adequate ventilation. Prevention 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 safe handling See Section 8 for information on personal protection equipment.	
See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals	
PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed.	
7 Handling and storage	
Handling	
Precautions for safe handling Keep container tightly sealed. Store in cool. drv place in tightly closed containers.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Open and handle container with care.	
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: 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	(Contd. on page 3)
	USA -

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		(Contd. of page 2)			
Exposure controls Personal protective equipment General protective and hygienic measures					
The usual precautionary measures for h	andling chemicals should be followed.				
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 e	nd of work				
Avoid contact with the eyes and skin.	Store protective clothing separately. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.				
Maintain an ergonomically appropriate v	vorking environment.				
Recommended filter device for short	term use				
Use a respirator with type N95 (USA) or PE (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 Check protective gloves prior to each use for their proper condition.					
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 Nitrile rubber, NBR					
Penetration time of glove material (in	minutes) 480				
Glove thickness: 0.11 mm					
Eye protection: Safety glasses with sid Body protection: Protective work cloth	e shields / NIOSH (US) or EN 166(EU) ing.				
9 Physical and chemical properties					
Information on basic physical and ch					
General Information					
Appearance: Form:	Powder				
Odor: Odor threshold:	Not determined Not determined.				
pH-value:	Not determined. Not applicable.				
Change in condition					
Melting point/Melting range:	193-196 °C (379-385 °F)				
Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined				
Flammability (solid, gaseous)	Not determined.				
Ignition temperature: Decomposition temperature:	Not determined Not determined				
Auto igniting:	Not determined.				
Danger of explosion: Explosion limits:	Not determined.				
Lower:	Not determined				
Upper: Vapor pressure:	Not determined Not applicable.				
Density at 20 °C (68 °F): Relative density	1.096 g/cm³ (9.146 lbs/gal) Not determined.				
Vapor density	Not applicable.				
Evaporation rate Solubility in / Miscibility with	Not applicable.				
Water:	Slightly soluble				
Partition coefficient (n-octanol/water) Viscosity:					
dynamic: kinematic:	Not applicable. Not applicable.				
Other information	No further relevant information available.				
10 Stability and reactivity					
Reactivity No information known. Chemical stability Stable under recomm	mended storage conditions				
Thermal decomposition / conditions t	t o be avoided: Decomposition will not occur if used and stored according to specifications				
Possibility of hazardous reactions Re Conditions to avoid No further relevan	acis with strong oxidizing agents tinformation available.				
Incompatible materials: Acids					
Oxidizing agents Hazardous decomposition products:					
Hazardous decomposition products: Carbon monoxide and carbon dioxide					
Nitrogen oxides					
11 Toxicological information					
Information on toxicological effects					
Acute toxicity: Harmful if inhaled.					
Harmful in contact with skin.					
Harmful if swallowed.					
Danger through skin absorption. LD/LC50 values that are relevant for classification: No data					
Skin irritation or corrosion: Causes sk Eye irritation or corrosion: Causes se	rious eve irritation				
Sonsitization: No consitizing offorta known					
Germ cell mutagenicity: No effects kno Carcinogenicity:	JWH.				
May cause cancer.	roperties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.				
Reproductive toxicity: No effects know					
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		USA			

Product name: 2,3-Diaminonaphthalene

	(Contd. of page 3)	
Specific target organ system toxicity - repeated exposure: No effects know		
Specific target organ system toxicity - single exposure: May cause respirate	ory irritation.	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. 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: 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 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	
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 MARPOL73/78 and the IBC Code Not applicable.		
Transport/Additional information:		
DOT Marine Pollutant (DOT):	Νο	
UN "Model Regulation":	Not applicable	
15 Pagulatory information		

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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 P280
 Wear protective gloves/protective clothing/eye protection/face protection.

 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

 P405
 Store locked up.

 P501
 Dispose of contents/container in accordance with local/regional/setime.

 Biopose of contents/container in accordance with local/regional/national/international regulations.
 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.
 Information about limitation of use:
 Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.
 For use only by technically qualified individuals.
 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. Dispose of contents/container in accordance with local/regional/national/international regulations.

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Product name: 2,3-Diaminonaphthalene

(Contd. of page 4) 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. Information to ensure proper use and protect the health and safety of employees. This monnation is thinking without warranty, and 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 **Date of preparation/Revision**: Print date, revision date and version number are in the header of each page. **Abbreviations and acronyms**: **AD**R: 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: Hazardous Materials Identification System (USA) WHMIS: Waradous Materials Information System (Canada) LC50: Lethal dose, 50 percent DBT: Persistent, Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) ARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Acute Tox: 4: Acute toxicity – Category 4 Skin Intt. 2: Skin corosion/irritation – Category 2A Carc. TA: Carcinogenicity – Category 1A STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

LISA