

Safety Data Sheet per OSHA HazCom 2012

R	eviewed on 03/11/2009
1 Identification	
Product identifier Product name: 2-Naphthylacetonitrile	
Stock number: L09384	
CAS Number: 7498-57-9	
EC number: 231-352-5	
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. 30 Bond Street Ward Hill, MA 01835-8099	
Tel: 800-343-0660 F_ax: 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)	
GHS06 Skull and crossbones	
Acute Tox. 3 H331 Toxic if inhaled.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed. 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	
GHS06	
Signal word Danger	
Hāzard statements H302 Harmful if swallowed.	
H331 Toxic if inhaled. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P311 Call a POISON CENTER/doctor/	
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	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH I FIRE I FIRE I REACTIVITY I 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:	
7498-57-9 2-Naphthylacetonitrile Identification number(s):	
EC number: 231-352-5	
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.	(Contd. on page 2)
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After skin contact Immediately wash with water and soap a Seek immediate medical advice. After eye contact Rinse opened eye for		(Contd. of page 1)		
After swallowing Seek medical treatme Information for doctor Most important symptoms and effects Indication of any immediate medical a	r several minutes under running water. Then consult a doctor. nt. s, both acute and delayed No further relevant information available. attention and special treatment needed No further relevant information available.			
5 Fire-fighting measures				
Extinguishing media Suitable extinguishing agents Carbon Special hazards arising from the subs If this product is involved in a fire, the fol Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture lowing can be released:			
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. 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 persona 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: 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: 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 prote				
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: Not required. Additional information: No data				
Exposure controls Personal protective equipment Concret protective and bygionic most				
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.				
Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Protection of hands:	orking environment. pirator when high concentrations are present.			
Impervious gloves Check protective gloves prior to each us	e 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.				
9 Physical and chemical properties				
Information on basic physical and che General Information Appearance:				
Form: Color: Odor:	Powder White Not determined			
Odor threshold:	Not determined Not determined.			
pH-value: Change in condition	Not applicable.			
Melting point/Melting range:	82-84 °C (180-183 °F)	(Contd. or zero 0)		
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		(Contd. of page 2)		
Boiling point/Boiling range: Sublimation temperature / start:	303 °C (577 °F) Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined Not determined Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water, Viscosity: dynamic:	Product does not present an explosion hazard. Not determined Not applicable. 1.092 g/cm ³ (9.113 lbs/gal) Not determined. Not applicable. Insoluble): Not determined. Not applicable.			
kinematic: Other information	Not applicable. 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. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen cyanide				
11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if inhaled. Harmful if inhaled. LD/LCS0 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 material is available from the EPA, IARC, NTP, OSHA or ACGIH. 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. Subacute to chronic toxicity: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic				
12 Ecological information Toxicity Aquatic toxicity: No further relevant information available.				

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 governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. 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, IMDG, IATA	UN3439	
UN proper shipping name DOT IMDG, IATA	Nitriles, solid, toxic, n.o.s. (2-Naphthylacetonitrile) NITRILES, SOLID, TOXIC, N.O.S. (2-Naphthylacetonitrile)	
		(Contd on page 4)

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Product name: 2-Naphthylacetonitrile		
	(Contd. of page 3)	
Transport hazard class(es) DOT		
Class Label	6.1 Toxic substances. 6.1	
Class	6.1 (T2) Toxic substances	
Label IMDG, IATA	6.1	
Class Label	6.1 Toxic substances. 6.1	
Packing group DOT, IMDG, IATA	11	
Environmental hazards:	Not applicable.	
Special precautions for user EMS Number:	Warning: Toxic substances F-A,S-A	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Cod	· · · · · · · · · · · · · · · · · · ·	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN3439, Nitriles, solid, toxic, n.o.s. (2-Naphthylacetonitrile), 6.1, III	
15 Regulatory information		
Safety, health and environmental regulations/legislation specific for the s GHS label elements The product is classified and labeled in accordance with 2		
Hazard pictograms	29 CFR 1910 (OSHA HCS)	
GHS06		
Signal word Danger		
Hazard statements H302 Harmful if swallowed.		
H331 Toxic if inhaled.		
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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for P311 Call a POISON CENTER/doctor/ P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor//if you feel u		
P405 Store locked up.		
P501 Dispose of contents/container in accordance with local/regional/na National regulations		
this product is not insteam the 0.5. Environmental Protection Agency Toxic Sc to research and development only. This product must be used by or directly uni-	<i>ibstances Control Act Chemical Substance Inventory. Use of this product is restricted der the supervision of a technically qualified individual as defined by TSCA. This tercial purposes.</i>	
SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65	ercial purposes.	
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 indiv	viduals.	
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 manufacturing, placing on the		
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.		
	carried out.	
16 Other information Employers should use this information only as a supplement to other information	on gathered by them, and should make independent judgement of suitability of this	
information to ensure proper use and protect the health and safety of employee conformance with this Material Safety Data Sheet, or in combination with any o	es." This information is furnished without warranty, and any use of the product not in the product not in the responsibility of the user.	
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -		
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization		
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreemen IMDG: International Maritime Code for Dangerous Goods	t concerning the International Carriage of Dangerous Goods by Road)	
עטר: טא Department or Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances		
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) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civit Aviation Organization ICAO: International Civit Aviation Organization ICAO: International Instructions by the "International Civil Aviation Organization" (ICAO) 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 Transportation IATA: International Air 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: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal cose, 50 percent USD: Lethal dose, 50 percent		
wrmms, workpace razaroous Materiais information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent		
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	(Contd. on page 5) USA —	

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NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) (Contd. of page 4)

USA