



1.67/6	wea on 01/22/2007
1 Identification	
Product identifier Product name: 4-Nitro-1-naphthol	
Stock number: L19782 CAS Number:	
605-62-9 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.	
70 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660	
Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@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 H301 Toxic if swallowed.	
С сняза спорт спор	
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	
GHS06	
Signal word Danger Hazard statements H301 Toxic if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective clothing/eye protection/face protection.	
P301+P310 IF SWALLOWED: Immediately call a POISÓN CENTER/ doctor/ P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsin P405 Store locked up.	g.
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 Health (acute effects) = 2 FIRE 1 Flammability = 1	
REACTIVITY [] Physical Házard = 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: 605-62-9 4-Nitro-1-naphthol	
4 First-aid measures	
Description of first aid measures After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm.	(Contd. on page 2)
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Draduct names 4 Nitro 4 nonhthal	10000	cu on o 1/22/2007
Product name: 4-Nitro-1-naphthol		
After swallowing Seek medical treatme Information for doctor	r several minutes under running water. Then consult a doctor.	(Contd. of page 1)
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) 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 llowing can be released:	
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unprotective Ensure adequate ventilation Environmental precautions: Do not allow Methods and material for containment Dispose of contaminated material as was Ensure adequate ventilation. Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on persona See Section 13 for disposal information.	ow material to be released to the environment without proper governmental permits. t and cleaning up: ste according to section 13. special measures required. Indling al protection equipment.	
Conditions for safe storage, including Storage	explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. Imon storage facility: Store away from oxidizing agents. Inditions:	
Control parameters Components with limit values that req Additional information: No data Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for ha Keep away from foodstuffs, beverages a Remove all soiled and contaminated clou Wash hands before breaks and at the er Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Protection of hands: Impervious gloves Check protective gloves prior to each us	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. guire monitoring at the workplace: Not required. sures andling chemicals should be followed. and feed. thing immediately. not of work. vorking environment. pirator when high concentrations are present. the for their proper condition.	
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:		
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	164-167 °C (327-333 °F) Not determined	
		(Contd. on page 3)

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Product name: 4-Nitro-1-naphthol				
Out the day to me water to be		(Contd. of page 2)		
Sublimation temperature / start: Flash point:	Not determined Not applicable			
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined			
Danger of explosion:	Product does not present an explosion hazard.			
Explosion limits: Lower:	Not determined			
Upper: Vapor pressure:	Not determined Not applicable.			
Density: Relative density	Not determined Not determined.			
Vapor density Evaporation rate	Not applicable. Not applicable.			
Solubility in / Miscibility with Water:	Insoluble			
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 recom Thermal decomposition / conditions	to be avoided: Decomposition will not occur if used and stored according to specifications.			
Possibility of hazardous reactions No Conditions to avoid No further relevan	lo dangerous reactions known nt information available.			
Incompatible materials: Oxidizing agents Hazardous decomposition products:				
Carbon monoxide and carbon dioxide Nitrogen oxides				
11 Toxicological information				
Information on toxicological effects				
Acute toxicity: Harmful if swallowed. LD/LC50 values that are relevant for o	classification: No data			
Skin irritation or corrosion: Causes sl Eye irritation or corrosion: Causes se	erious eve irritation.			
Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn	iown. iown.			
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. wn.			
Specific target organ system toxicity	 repeated exposure: No effects known. single exposure: May cause respiratory irritation. 			
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	ects known.			
¥	: 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 ini Desired and the second desired bit is the further	iformation available.			
Persistence and degradability No furth Bioaccumulative potential No further in	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	et a la constante de constante a disconstante a la constante a la constante a la constante a la constante a la			
Uncleaned packagings:	or national regulations to ensure proper disposal.			
Recommendation: Disposal must be m	nade according to official regulations.			
14 Transport information Not a hazardous material for transportat UN-Number	ition.			
DOT, IMDG, IATA	None			
UN proper shipping name DOT, IMDG, IATA	None			
Transport hazard class(es)				
DOT, ADR, IMDG, IATA Class	None			
Packing group DOT, IMDG, IATA	None			
		(Contd. on page 4)		
		- USA		

Product name: 4-Nitro-1-naphthol	
	(Contd. of page 3
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the I	
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
P405 Store locked up. P501 Dispose of contents/container in accordance with low National regulations This product is not listed in the U.S. Environmental Protection Agency To research and development only. This product must be used by or dir product must not be used for commercial purposes or in formulations for SARA Section 313 (specific toxic chemical listings) Substance is not California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female 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 qualitions for Substance of Very High Concern (SVHC) according to the REACH The conditions of restrictions according to Article 67 and Annex XI market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for Chemical safety assessment: A Chemical Safety Assessment has not Dister information 16 Other information Employers should use this information only as a supplement to other in	nce with 29 CFR 1910 (OSHA HCS) ection/face protection. NTER/ doctor/ I minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Docal/regional/national/international regulations. Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted recity under the supervision of a technically qualified individual as defined by TSCA. This for commercial purposes. Tot if listed. I. I. I. I. I. I. I. I. I. I