



1 Identification

Product identifier Product name: 2-Bromonaphthalen

Product name: 2-Bromonaphthalene Stock number: A15300 CAS Number: 580-13-2 EC number: 209-452-5 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) ! GHS07 Acute Tox. 4 H302 Harmful if swallowed. Eye Irrit. 2A H319 Causes serious eye 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 Signal word Warning Hazard statements H302 Harmful if swallowed. H319 Causes serious eye irritation. Precautionary statements

 Precautionary statements

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

 P264
 Wash thoroughly after handling.

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

 P301+P312
 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.

 P3027
 Exercise the tension of the protection of the protection of the protection.

 P301+P312 P337+P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 2Flammability = 1Physical 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: 580-13-2 2-Bromonaphthalene Identification number(s): EC number: 209-452-5 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. (Contd. on page 2)

Page 2/4 Printing date 11/23/2015 Reviewed on 11/17/2014

Product name: 2-Bromonaphthaler	Product name: 2-Bromonaphthalene		
After swallowing Seek medical treatm	nant	(Contd. of page 1)	
Information for doctor			
Indication of any immediate medical	:ts, both acute and delayed No further relevant information available. I attention and special treatment needed No further relevant information available.		
5 Fire-fighting measures			
Extinguishing media	n die vide ondie wie bien ander en weter en me. Finhet lannen finse with weter en men en ele bet me iste ut fee		
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 f Carbon monoxide and carbon dioxide	following can be released:		
Hydrogen bromide (HBr) Advice for firefighters			
Protective equipment: Wear self-contained respirator.			
Wear fully protective impervious suit.			
6 Accidental release measures			
Personal precautions, protective equipment. Keep unpr	uipment and emergency procedures rotected persons away.		
Ensure adequate ventilation	allow material to be released to the environment without proper governmental permits.		
Methods and material for containme Prevention of secondary hazards: N	ent and cleaning up: Dispose of contaminated material as waste according to section 13.		
Reference to other sections See Section 7 for information on safe h			
See Section 8 for information on perso See Section 13 for disposal information	onal protection equipment.		
	т. 		
7 Handling and storage Handling			
Precautions for safe handling Keep container tightly sealed.			
Store in cool, dry place in tightly closed			
Ensure good ventilation at the workplace Information about protection agains	t explosions and fires: No information known.		
Conditions for safe storage, includir Storage	ng any incompatibilities		
Requirements to be met by storeroo	oms and receptacles: No special requirements. mmon storage facility: Store away from oxidizing agents.		
Eurther information about storage c	onditions.		
Keep container tightly sealed. Store in cool, dry conditions in well sea Specific and use(s) No further relevant	aled containers.		
Specific end use(s) No further relevant information available.			
8 Exposure controls/personal pro Additional information about design	o 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 re	equire monitoring at the workplace:		
The product does not contain any releve Additional information: No data	vant quantities of materials with critical values that have to be monitored at the workplace.		
Exposure controls			
Personal protective equipment General protective and hygienic mea	asures		
Keep away from foodstuffs, beverages			
Remove all soiled and contaminated cl Wash hands before breaks and at the			
Avoid contact with the eyes. Avoid contact with the eyes and skin.			
Breathing equipment: Use suitable re	espirator when high concentrations are present.		
Recommended filter device for shor Use a respirator with type P100 (USA)	or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to de	termine if air-	
purifying respirators are appropriate. (Protection of hands:	Only use equipment tested and approved under appropriate government standards.		
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. Material of gloves Nitrile rubber, NBR			
Penetration time of glove material (in minutes) 480 Glove thickness 0.11 mm			
Eye protection: Safety glasses Body protection: Protective work clot	hina		
9 Physical and chemical properties Information on basic physical and chemical properties			
General Information Appearance:			
Form: Color:	Powder White to pale yellow/cream		
Odor: Odor threshold:	Vinie to pare yellow/cream Odor/ess Not determined.		
pH-value:	Not applicable.		
		(Contd. on page 3)	
		00/1	

Product name: 2-Bromonaphthalene

Page 3/4 Printing date 11/23/2015 Reviewed on 11/17/2014

		(Contd. of page 2
Change in condition Melting point/Melting range: Boiling point/Boiling range: Subligation tompositure (start:	53-57 °C (127-135 °F) 281-282 °C (538-540 °F) Not dotuminod	
Sublimation temperature / start: Flash point:	Not determined 112 °C (234 °F)	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density at 20 °C (68 °F): Relative density	1.605 g/cm³ (13.394 lbs/gal) Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Partly soluble	
Partition coefficient (n-octanol/water)		
Viscosity: dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
0 Stability and reactivity		
0 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recomi	nended storage conditions	
Thermal decomposition / conditions t	be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Re Conditions to avoid No further relevant	acts with strong oxidizing agents tinformation available	
Incompatible materials: Oxidizing ager	nts	
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Hydrogen bromide		
4 Toxicological information		
1 Toxicological information		
Information on toxicological effects Acute toxicity: Harmful if swallowed.		
LD/LC50 values that are relevant for c		
Skin irritation or corrosion: May cause	e irritation	
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kno	nous eye innauon. Dwn.	
Germ cell mutagenicity: No effects kno	own.	
Reproductive toxicity: No effects know	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity	- repeated exposure: No effects known.	
Specific target organ system toxicity Aspiration hazard: No effects known.	- single exposure: No effects known.	
Subacute to chronic toxicity: No effect	ts known.	
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
2 Ecological information		
Toxicity		
Aquatic toxicity: No further relevant inf	ormation available.	
Persistence and degradability No furth Bioaccumulative potential No further r	ner relevant information available. elevant information available	
Mobility in soil No further relevant infor	mation available.	
Additional ecological information: General notes:		
Do not allow material to be released to t	he environment without proper governmental permits.	
Do not allow undiluted product or large of	quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment. Results of PBT and vPvB assessmen	t	
PBT: Not applicable.		
	ant information qualitable	
vPvB: Not applicable. Other adverse effects No further releva		
Other adverse effects No further releva		
Other adverse effects No further relevant 3 Disposal considerations	ni inormauon available.	
Other adverse effects No further relevand 3 Disposal considerations Waste treatment methods		
Other adverse effects No further relevant 3 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings:	or national regulations to ensure proper disposal.	
Other adverse effects No further relevand 3 Disposal considerations Waste treatment methods Recommendation Consult state, local of	or national regulations to ensure proper disposal.	
Other adverse effects No further releva 3 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal.	
Other adverse effects No further relevant 3 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m 4 Transport information	or national regulations to ensure proper disposal.	
Other adverse effects No further relevand 3 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings:	or national regulations to ensure proper disposal.	
Other adverse effects No further relevant 3 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m 4 Transport information UN-Number DOT, ADN, IMDG, IATA	or national regulations to ensure proper disposal. ade according to official regulations. Not applicable	
Other adverse effects No further relevant 3 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m 4 Transport information UN-Number DOT, ADN, IMDG, IATA UN proper shipping name DOT, ADN, IMDG, IATA	or national regulations to ensure proper disposal. ade according to official regulations.	
Other adverse effects No further relevant 3 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m 4 Transport information UN-Number DOT, ADN, IMDG, IATA UN proper shipping name DOT, ADN, IMDG, IATA Transport hazard class(es)	or national regulations to ensure proper disposal. ade according to official regulations. Not applicable	
Other adverse effects No further relevant 3 Disposal considerations Waste treatment methods Recommendation Consult state, local of Uncleaned packagings: Recommendation: Disposal must be m 4 Transport information UN-Number DOT, ADN, IMDG, IATA UN proper shipping name DOT, ADN, IMDG, IATA	or national regulations to ensure proper disposal. ade according to official regulations. Not applicable	

(Contd. on page 4)

Product name: 2-Bromonaphthalene			
	(Contd. of page 3)		
Packing group DOT, IMDG, IATA			
	Not applicable		
Environmental hazards: Special precautions for user	Not applicable. 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):	No		
UN "Model Regulation":	-		
15 Regulatory information Safety, health and environmental regulations/leg GHS label elements The product is classified and Hazard pictograms GHS07	gislation specific for the substance or mixture labeled in accordance with 29 CFR 1910 (OSHA HCS)		
P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously w. P301+P312 IF SWALLOWED: Call a POISC P337+P313 If eye irritation persists: Get med P501 Dispose of contents/container in National regulations All components of this product are listed in the U.S. All components of this product are listed on the Cal SARA Section 313 (specific toxic chemical listin California Proposition 65 Prop 65 - Chemicals known to cause cancer Sul Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, female Substance	ith water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. DN CENTER/doctor//if you feel unwell. dical advice/attention. n accordance with local/regional/national/international regulations. E. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. nadian Non-Domestic Substances List (NDSL). ngs) Substance is not listed. bstance is not listed. ot listed. re is not listed. ce is not listed. cyulations gulations ding to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. cife 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the		
Department issuing SDS: Global Marketing Depa Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: RID: Reglement international concernant le transport des marchand ICAO: International Civil Aviation Organization	tises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) uses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) pstances		

LD50: Lethal dose, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA