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1 Identification Product identifier Product name: 6-Bromo-2-naphthol Stock number: 47343 CAS Number: 15231-91-1 EC number: 239-279-0 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 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 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 Signal word Warning Hazard statements nazaro statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements D361

 Precautionary statements

 P261
 Avoid breathing dust/fume/gas/mist/vapors/spray

 P280
 Wear protective gloves / 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.

 P304+P340
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

 P405
 Store locked up.

 P504
 Dispace of contents/container in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects T Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) EALTH I Health (acute effects) = 1 RE I Flammability = 1 EACTIVITY 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: 15231-91-1 6-Bromo-2-naphthol Concentration: ≤100% Identification number(s): EC number: 239-279-0 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.

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(Contd. of page 1) 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. Causes serious eye irritation. 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: Or how monovide and earthen dioxiden discussion. Carbon monoxide and carbon dioxide Varion monoxide and carbon dioxide 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 and emergency procedures** Wear protective equipment. Keep unprotected persons away. 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: 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 personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals PAC-1: Substance is not listed 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 Recautions for sale manufing 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 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 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 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 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 with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

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9 Physical and chemical properties	
Information on basic physical and ch	
General Information	
Appearance: Form:	Powder
Odor:	Not determined
Odor threshold: pH-value:	Not determined. Not applicable.
Change in condition	
Malting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	126-129 °C (259-264 °F) Not determined Not determined Not determined Not determined Not determined Not determined Not determined.
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic:	
dynamic: kinematic:	Not applicable. Not applicable.
Other information	No further relevant information available.
Chemical stability Stable under recom Thermal decomposition / conditions to Possibility of hazardous reactions Re Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen bromide	to be avoided: Decomposition will not occur if used and stored according to specifications. Pacts with strong oxidizing agents t information available.
LD/LC50 values that are relevant for of Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	e irritation irritation own.
Reproductive toxicity: No effects know	ın.
	- repeated exposure: No effects known.
Specific target organ system toxicity	- single exposure: May cause respiratory irritation.
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effec Additional toxicological information:	ts 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 inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes:	her relevant information available. elevant information available. mation available. quantities to reach ground water, water course or sewage system. t
13 Disposal considerations	
Waste treatment methods Recommendation Consult state, local of	or national regulations to ensure proper disposal.
Uncleaned packagings:	
Recommendation: Disposal must be m	ade according to official regulations.
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Product name: 6-Bromo-2-naphthol

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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
	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 an	id the IBC Code Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	Not applicable
Regulatory information	
Safety, health and environmental regulations/legislation sp	ecific for the substance or mixture
GHS label elements The product is classified and labeled in ac Hazard pictograms	cordance with 29 CFR 1910 (OSHA HCS)
GHS07	
Signal word Warning Hazard statements	
H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/s	
P280 Wear protective gloves / eve protection / fac	e protection
P305+P351+P338 If in eyes: Rinse cautiously with water for sev P304+P340 IF INHALED: Remove person to fresh air an	veral minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.	
P501 Dispose of contents/container in accordance National regulations	with local/regional/national/international regulations.
All components of this product are listed on the Canadian Dome	estic Substances List (DSL).
This product is not listed in the U.S. Environmental Protection A	gency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restri
product must not be used for commercial purposes or in formula	ỹ or directly under the supervision of a technically qualified individúal as defined by TSCA. This ations for commercial purposes.
SARA Section 313 (specific toxic chemical listings) Substar California Proposition 65	ice is not listed.
Prop 65 - Chemicals known to cause cancer Substance is no	t listed.
Prop 65 - Developmental toxicity Substance is not listed.	tod
Prop 65 - Developmental toxicity, female Substance is not lis Prop 65 - Developmental toxicity, male Substance is not liste	d.
Information about limitation of use . For use only by technical	lv qualified individuals
Substance of Very High Concern (SVHC) according to the F	REACH Regulations (EC) No. 1907/2006. Substance is not listed. nnex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
The conditions of restrictions according to Article 67 and A market and use must be observed.	nnex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on
Substance is not listed.	
Annex XIV of the REACH Regulations (requiring Authorisat Chemical safety assessment: A Chemical Safety Assessment	ion for use) Substance is not listed. t has not been carried out
Other information	
Unermonnanon	
Employers should use this information only as a supplement to	other information gathered by them, and should make independent judgement of suitability of thi
Employers should use this information only as a supplement to	other information gathered by them, and should make independent judgement of suitability of this ety of employees. This information is furnished without warranty, and any use of the product not any other product or process is the responsibility of the user.
Employers should use this information only as a supplement to information to ensure proper use and protect the health and safe conformance with this Safety Data Sheet, or in combination with	ety of employees. This information is furnished without warranty, and any use of the product not any other product or process, is the responsibility of the user.
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