



Product name: 1-Bromo-4-n-butylbenzene	
Information for doctor	(Contd. of page 1)
Most important symptoms and effects, both acute and delayed No further relevant information available. 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 foa Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen bromide (HBr) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	ım.
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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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.	
7 Handling 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 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: Not required. Additional information: No data	
Exposure controls 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. Protection of hands: 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. Eye protection: Safety glasses Body protection: Protective work clothing.	
9 Physical and chemical properties	
Information on basic physical and chemical properties General Information Appearance: Form: Liquid	
Odor: Not determined Odor threshold: Not determined.	
pH-value: Not determined.	
Change in condition Melting point/Melting range: Not determined Boiling point/Boiling range: 242 °C (468 °F) Sublimation temperature / start: Not determined	
Flash point: Not determined Flammability (solid, gaseous) Not determined. Ignition temperature: Not determined Decomposition temperature: Not determined	
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Product name: 1-Bromo-4-n-butylbenzene		
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density	Product does not present an explosion hazard. Not determined Not determined Not determined Not determined. Not determined.	
Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water)	Not determined. Not determined	
Viscosity: dynamic: kinematic:	Not determined. Not determined.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recom Thermal decomposition / conditions No Possibility of hazardous reactions No Conditions to avoid No further relevan Incompatible materials: Oxidizing age Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen bromide	it information available.	
Reproductive toxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	kin irritation. rious eye irritation. lown. own. o on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant int Persistence and degradability No further Bioaccumulative potential No further I Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to to Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant	her relevant information available. relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. ht	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m	or national regulations to ensure proper disposal. nade according to official regulations.	
14 Transport information Not a hazardous material for transportat	tion.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, ADR, IMDG, IATA		
Class Packing group DOT, IMDG, IATA	None	
DOT, IMDG, IATA Environmental hazards:	None Not applicable.	
Special precautions for user	Not applicable.	
	x II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	(Contd. on page 4)
		(Contd. on page 4)

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Product name: 1-Bromo-4-n-butylbenzene	
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DOT Marine Pollutant (DOT):	No
	s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
P304+P340 IF INHALED: Remove person P405 Store locked up. P501 Dispose of contents/containe National regulations This product is not listed in the U.S. Environment to research and development only. This product product must not be used for commercial purpos SARA Section 313 (specific toxic chemical listed in the California Proposition 65 Prop 65 - Chemicals known to cause cancer of the prop 65 - Developmental toxicity, female Substance is prop 65 - Developmental toxicity, male Substance of Very High Concern (SVHC) acc Information about limitations and prohibitive Substance of Very High Concern (SVHC) acc The conditions of restrictions according to A market and use must be observed.	ective clothing/eyé protection/face protection. If with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. So to fresh air and keep comfortable for breathing. er in accordance with local/regional/national/international regulations. Intal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted t must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This istings) Substance is not listed. Substance is not listed. is not listed. tance is not listed. tance for and Annex XVII of the Regulation (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the tring Authorisation for use) Substance is not listed.
16 Other information Employers should use this information only as a information to ensure proper use and protect the conformance with this Material Safety Data Shee	a supplement to other information gathered by them, and should make independent judgement of suitability of this I health and safety of employees. This information is furnished without warranty, and any use of the product not Set, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department issuing SDS: Global Marketing Departs of preparation / last revision 11/24/2015 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association TATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Che HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (USC) USSOCI Lethal concentration, 50 percent DSSO: Lethal dose, 50 percent DSSOCI Lethal dose, 50 percent VPUE: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygie OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	epartment 5 / - emical Society) 'Canada)