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Product name: 2-Bromo-4-chlorotoluene

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	Indication of any immediate medical a	attention and special treatment needed No further relevant information available.	(Contd. of page 1)	
5	5 Fire-fighting measures			
	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: Carbon monoxide and carbon dioxide Hydrogen bromide (HBr) Hydrogen chloride (HCI) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.			
6	6 Accidental release measures			
U	 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). Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 13 for disposal information. 			
7	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			
8	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			
		quire 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. Wash nands before breaks and at the end of work. Avoid contact with the eyes and skin. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: mpervious 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. Penetration time of glove material (in minutes) Not determined Eye protection: Safety glasses Body protection: Protective work clothing.			
ç	9 Physical and chemical properties			
	Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:			
	pH-value:	Not determined.		
	Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flash point:	Not determined Not determined Not determined Not determined		
	Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined.	(2	
			(Contd. on page 3)	

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Product name: 2-Bromo-4-Chlorotoll	IGH C	(0	
Danger of evaluation:	Product doos not prosont an explosion bazard	(Contd. of page 2)	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.		
Lower:	Not determined		
Upper: Vapor pressure:	Not determined Not determined		
Density:	Not determined		
Relative density	Not determined.		
Vapor density Evaporation rate	Not determined. Not determined.		
Solubility in / Miscibility with			
Water: Partition coefficient (n-octanol/water):	Not miscible or difficult to mix		
Viscosity:	Not determined.		
dynamic:	Not determined.		
kinematic: Other information	Not determined. No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.			
Chemical stability Stable under recomn Thermal decomposition / conditions to	nended storage conditions. n be avoided: Decomposition will not occur if used and stored according to specifications		
Possibility of hazardous reactions No	Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Cossibility of hazardous reactions No dangerous reactions known		
Conditions to avoid No further relevant Incompatible materials: Oxidizing agen	information available.		
Hazardous decomposition products:	15		
Hazardous decomposition products: Carbon monoxide and carbon dioxide			
Hydrogen bromide Hydrogen chloride (HCl)			
, ,			
11 Toxicological information			
Information on toxicological effects			
Acute toxicity: No effects known. LD/LC50 values that are relevant for cl	lassification. No data		
Skin irritation or corrosion: Causes ski	in irritation.		
Eye irritation or corrosion: Causes ser			
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	wn.		
Carcinogenicity: No classification data of	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 -	n. • reneated exposure: No effects known		
Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known	single exposure: No effects known.		
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect			
Additional toxicological information: 1	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.		
42 Feelenieel information			
12 Ecological information			
Toxicity Aquatic toxicity: No further relevant info	prmation available		
Persistence and degradability No furth	er relevant information available		
Bioaccumulative potential No further re Mobility in soil No further relevant inforr	elevant information available.		
Additional ecological information:	nation available.		
General notes:	General notes:		
Do not allow material to be released to the Avoid transfer into the environment.	Do not allow material to be released to the environment without proper governmental permits.		
Results of PBT and vPvB assessment			
PBT: Not applicable.	PBT: Not applicable		
vPvB: Not applicable. Other adverse effects No further releva	nt information available.		
	3 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings:		
Uncleaned packagings:			
Recommendation: Disposal must be ma	ade according to official regulations.		
14 Transport information			
Not a hazardous material for transportation	on.		
UN-Number	Mana		
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		
Environmental hazards:	Not applicable.		
Special precautions for user Not applicable.			
	II of MARPOL73/78 and the IBC Code Not applicable.		
Transport/Additional information:	Not dangerous according to the above specifications.		
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Product name: 2-Bromo-4-chlorotoluene			
	(Contd. of page 3)		
DOT Marine Pollutant (DOT):	No		
15 Regulatory information Safety, health and environmental regulations/legis GHS label elements The product is classified and lab Hazard pictograms	slation specific for the substance or mixture beled in accordance with 29 CFR 1910 (OSHA HCS)		
GHS07			
P362 Take off contaminated clothing. P321 Specific treatment (see on this labe P332+P313 If skin irritation occurs: Get medica P337+P313 If eye irritation persists: Get medica National regulations This product is not listed in the U.S. Environmental Pr to research and development only. This product must product must not be used for commercial purposes or SARA Section 313 (specific toxic chemical listings California Proposition 65 Prop 65 - Chemicals known to cause cancer Substa Prop 65 - Developmental toxicity, female Substance Prop 65 - Developmental toxicity, male Substance i Information about limitation of use: For use only by Other regulations, limitations and prohibitive regu Substance of Very High Concern (SVHC) according	cal advice/attention. cal advice/attention. Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted it be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This pr in formulations for commercial purposes. 15) Substance is not listed. listed. ce is not listed. e is not listed. is not listed. is not listed. is not listed. or in for use) Substance (EC) No. 1907/2006. Substance is not listed. 16) Substance is not listed. 17) Vechnically qualified individuals. 18) Substance is not listed. 19) Substance is not listed. 19) Substance (International Content of the Regulation (EC) No. 1907/2006. Substance is not listed. 19) Authorisation for use) Substance is not listed.		
information to ensure proper use and protect the healt conformance with this Material Safety Data Sheet, or I	plement to other information gathered by them, and should make independent judgement of suitability of this Ith and safety of employees. This information is furnished without warranty, and any use of the product not in r in combination with any other product or process, is the responsibility of the user.		
Department issuing SDS: Global Marketing Departm Date of preparation / last revision 11/24/2015/- Abbreviations and acronyms: RD: Règlement international concernant le transport des marchandises IATA-DGR: Dangerous Goods Regulations by the 'International Air Trai ICAO: International Instructions by the 'International Civil Aviation Organization ICAO: International Instructions by the 'International Civil Aviation Orga MDG: International Instructions by the 'International Civil Aviation Orga IMDG: International Instructions by the 'International Civil Aviation Orga IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Sc HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	es dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ransport Association" (IATA) ranization" (ICAO)		