

Safety Data Sheet per OSHA HazCom 2012



Product name: 4-Bromophenylhydrazine hydrochloride

	(Contd. of page 1)
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 symmediate medical advice. After symmediate medical advice. After symulowing Seek medical treatment. Information for doctor 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 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 Nitrogen bromix(HBr) Advice for firefighters Protective equipment:	(Contd. of page 1)
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. 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: Dispose of contaminated material as waste according to section 13. 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 13 for disposal information.	
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 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 soile 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. Protective of suitable 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: Powder Color: Off-white Odor: Odorless	
	(Contd. on page 3) USA

Product name: A-Bromonhonylbydrazine bydrochloride

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		ewed on 10/21/2010
Product name: 4-Bromophenylhydra	azine hydrochloride	
		(Contd. of page 2)
Odor threshold:	Not determined.	
pH-value: Change in condition	Not applicable.	
Melītina point/Meltina range:	215 °C (419 °F) (dec)	
Boiling point/Boiling range: Sublimation temperature / start:	Not determined	
Flash point:	Not applicable	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower:	Not determined Not determined	
Upper: Vapor pressure:	Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water: Partition coefficient (n-octanol/water).	Soluble : Not determined.	
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 recomm	mended storage conditions. t o be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions No	o dangerous reactions known	
Conditions to avoid No further relevant	t information available.	
Incompatible materials: Oxidizing ager Hazardous decomposition products:	115	
Carbon monoxide and carbon dioxide Nitrogen oxides		
Hydrogen bromide		
11 Toxicological information		
Information on toxicological effects		I
Acute toxicity: Toxic if swallowed. LD/LC50 values that are relevant for c	Jacobiantian. No data	
Skin irritation or corrosion: Causes sk	kin irritation.	
Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno	own.	
Germ cell mutagenicity: No effects kno	own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects know	vn.	
Specific target organ system toxicity 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 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	ormation available.	
Persistence and degradability No furth Bioaccumulative potential No further n	her relevant information available.	
Mobility in soil No further relevant infor	mation available.	
Additional ecological information: General notes:		
Do not allow material to be released to the	he environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	
Avoid transfer into the environment.		
Results of PBT and vPvB assessment PBT: Not applicable.	t	
vPvB: Not applicable. Other adverse effects No further releva	ant information available	
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 Recommended cleansing agent: Wate	ade according to official regulations. er, if necessary with cleansing agents.	
14 Transport information Not a hazardous material for transportation	ion.	
UN-Number		
DOT, IMDG, IATA	None	(Contd. on page 4)
		USA -

Product name: 4-Bromophenylhydrazine hydrochloride

		(Contd. of page 3)		
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.			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.				
Transport/Additional information:	Not dangerous according to the above specifications.			
DOT Marine Pollutant (DOT):	No			

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture 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 gloves/protective clothing/eve protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON 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 rinsing. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. 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. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. National regulations market and use must be observed. Substance is not liste Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees." This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Conformatice with this waterial safety bate Grock, or in constructed with this waterial safety bate Grock, or in constructed with this waterial safety bate Grock, or in constructed with the period of the safety bate Grock, or in constructed with the safety bate Grock of the constructed by bate Grock of the Grock of the constructed by bate Grock of the construct IMDC: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent CACGHI: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) USA