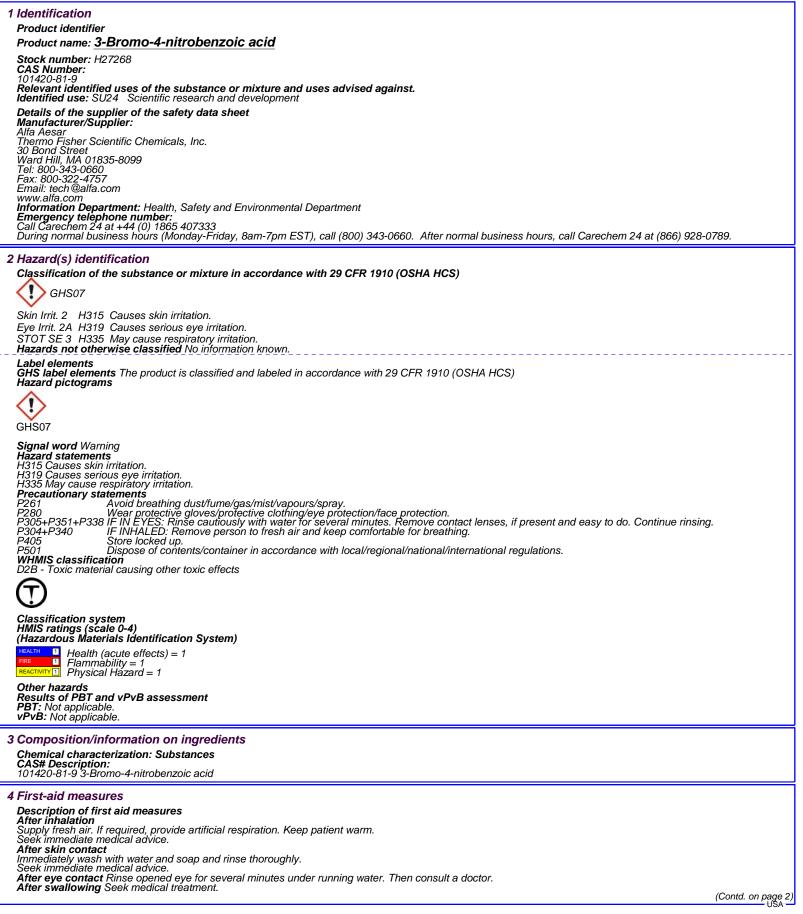


Safety Data Sheet per OSHA HazCom 2012



Product name: 3-Bromo-4-nitrobenzoic acid

(Contd. of page 1) 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 oxides (NOx) 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. 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: 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 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 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 The selection 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. Penetration time of glove material (in minutes) Not determined 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: Pale yellow Odor: Not determined Odor threshold: Not determined pH-value: Not applicable. Change in condition 200-204 °C (392-399 °F) Not determined Melting point/Melting range: 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 (Contd. on page 3)

Product name: 3-Bromo-4-nitrobenzoic acid

Product name: 3-Bromo-4-nitroben:	zoic acid	
		(Contd. of page 2)
Auto igniting:	Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower: Upper:	Not determined Not determined	
Vapor pressure:	Not applicable.	
Density: Relative density	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Insoluble	
Partition coefficient (n-octanol/water, Viscosity:	noi determined.	
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 recom	nmended storage conditions. to be avoided: Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions	to be avoided: Decomposition will not occur if used and stored according to specifications.	
Conditions to avoid No further relevan Incompatible materials: Oxidizing age	nt information available.	
Hazardous decomposition products:	nis	
Carbon monoxide and carbon dioxide Nitrogen oxides		
Hydrogen bromide		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for a	classification: No data	
Skin irritation or corrosion: Causes s	kin irritation.	
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kn	rious eye irritation. Jown	
Germ cell mutagenicity: No effects kn	IOWN.	
Carcinogenicity: No classification data Reproductive toxicity: No effects know	a 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.	
Aspiration hazard: No effects known.	r - single exposure: May cause respiratory irritation.	
Subacute to chronic toxicity: No effect	cts 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 in	formation available.	
Aquatic toxicity: No further relevant in Persistence and degradability No furt	her relevant information available.	
Bioaccumulative potential No further Mobility in soil No further relevant info	relevant information available. rmation available.	
Additional ecological information:		
General notes: Do not allow material to be released to	the environment without proper governmental permits.	
Avoid transfer into the environment. Results of PBT and vPvB assessmen		
PBT: Not applicable.	n de la constante de	
vPvB: Not applicable. Other adverse effects No further relev.	ant information available.	
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local	or national regulations to ensure proper disposal.	
Uncleaned packagings: Recommendation: Disposal must be n	nade according to official regulations.	
14 Transport information		
Not a hazardous material for transporta	tion.	
UN-Number DOT, IMDG, IATA	None	
	ivone	
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 Anne	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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DOT	(
Marine Pollutant (DOT):	No
GHS label elements The product is classified and Hazard pictograms	legislation specific for the substance or mixture d labeled in accordance with 29 CFR 1910 (OSHA HCS)
P405 Store locked up. P501 Dispose of contents/container in National regulations This product is not listed in the U.S. Environmental to research and development only. This product motor uses arch and development only. This product motor uses arch and development only. This product motor uses for commercial purposes SARA Section 313 (specific toxic chemical listic California Proposition 65 Prop 65 - Developmental toxicity substance is n Prop 65 - Developmental toxicity, female Substance only Prop 65 - Developmental toxicity, male Substance only Other regulations, limitations and prohibitive regulations, limitations and prohibitive regulations.	tings) Substance is not listed. ubstance is not listed. not listed. tance is not listed. not listed. ly by technically qualified individuals. regulations rding to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. ticle 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ng Authorisation for use) Substance is not listed.
information to ensure proper use and protect the h	supplement to other information gathered by them, and should make independent judgement of suitability of this health and safety of employees. This information is furnished without warranty, and any use of the product not i t, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Depa Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Abstracts Service (division of the American Chemic HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Can LCS0: Lethal concentration, 50 percent UPW: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienis: OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	rartment - ical Society) nada)