



Reviewed 0/1 04/13/20
1 Identification
Product identifier Product name: <b>4-Bromo-2-chlorobenzenesulfonamide</b>
Stock number: L19719
CAS Number: 351003-59-3
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
The most of the scientific Chemicals, Inc. 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) GHS06 Skull and crossbones
Acute Tox. 3 H301 Toxic if swallowed. 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
GHS06
Signal word Danger Hazard statements
H301 Toxic if swallowed. Precautionary statements
P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/
P301+P310 IF SWALLÓWED: Immediately call a POISÓN CENTER/ doctor/ P321 Specific treatment (see on this label).
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification D1B - Toxic material causing immediate and serious toxic effects
Classification system HMIS ratings (scale 0-4)
(Hazardouš Materials Identification System)
FIRE     Flammability = 1       REACTIVITY1     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: 351003-59-3 4-Bromo-2-chlorobenzenesulfonamide
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 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 No further relevant information available.
Indication of any immediate medical attention and special treatment needed No further relevant information available.
(Contd. on page

Danger of explosion:

## (Contd. of page 1)

	(0.000 0.0000)			
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbor Special hazards arising from the sub If this product is involved in a fire, the for Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCI) Sulfur oxides (SOx) Hydrogen bromide (HBr) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	n dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. stance or mixture illowing can be released:			
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. 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.				
Conditions for safe storage, including Storage Requirements to be met by storeroor	e, explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. nditions: led containers.			
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 solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective 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: Protective work clothing.				
9 Physical and chemical properties	S			
Information on basic physical and ch General Information Appearance: Form: Odor: Odor threshold:				
pH-value:	Not applicable.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	172-176 °C (342-349 °F) Not determined Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.			
Danger of explosion -	Product does not present an explosion hazard			

Product does not present an explosion hazard.

## Product name: 4-Bromo-2-chlorobenzenesulfonamide

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Product name: 4-Bromo-2-chlorobenzenesulfonamide			
		(Contd. of page 2)	
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: kinematic: Other information	Not determined Not applicable. Not applicable. Not determined Not applicable. Not applicable. Insoluble Insoluble Insoluble Insoluble Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.		
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCI) Sulfur oxides (SOx) Hydrogen bromide			
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	se irritation e irritation nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. <b>r - repeated exposure:</b> No effects known. <b>r - single exposure:</b> No effects known.		
12 Ecological information Toxicity Aquatic toxicity: No further relevant information Persistence and degradability No furth Bioaccumulative potential No further ro- Mobility in soil No further relevant infor- Additional ecological information: General notes: Do not allow material to be released to the Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessments PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevants	ther relevant information available. relevant information available. rmation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. <b>nt</b>		
13 Disposal considerations Waste treatment methods Recommendation Consult state, local of 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 transportation	tion.		
UN-Number 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. x II of MARPOL73/78 and the IBC Code Not applicable.		
		(Contd. on page 4) USA –	

roduct name: 4-Bromo-2-chlorobenzenesulfon	
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Transport/Additional information: DOT	Not dangerous according to the above specifications.
Marine Pollutant (DOT):	No
5 Regulatory information Safety, health and environmental regulations/legisla GHS label elements The product is classified and labele Hazard pictograms GHS06	tion specific for the substance or mixture ed in accordance with 29 CFR 1910 (OSHA HCS)
Signal word Danger Hazard statements H301 Toxic if swallowed. Precautionary statements P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this j P301+P310 IF SWALLOWED: Immediately call a POISO P321 Specific treatment (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance National regulations This product is not listed in the U.S. Environmental Prote to research and development only. This product must be product must not be used for commercial purposes or in SARA Section 313 (specific toxic chemical listings) S California Proposition 65 Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is Prop 65 - Developmental toxicity, male Substance is profest on the list of the section	DN CENTER/ doctor/ e with local/regional/national/international regulations. ection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric a used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes. Substance is not listed. ed. ed. so not listed. not listed. not listed. pechnically qualified individuals. tions to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. T and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on horisation for use) Substance is not listed.
6 Other information Employers should use this information only as a suppler information to ensure proper use and protect the health	nent to other information gathered by them, and should make independent judgement of suitability of this and safety of employees. This information is furnished without warranty, and any use of the product not i combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 /- Abbreviations and acronyms: RID: Réglement international concernant le transport des marchandises de IATA-DGR: Dangerous Goods Regulations by the "International Air Transp (CAO-I: Technical Instructions by the "International Civil Aviation Organization (CAO-I: Technical Instructions by the "International Civil Aviation Organization DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Socie HMIS: Hazardous Materials Identification System (USA) WHMIS: Worklace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UPVB: very Persisten and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	angereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) oort Association" (IATA) ation" (ICAO) ety)