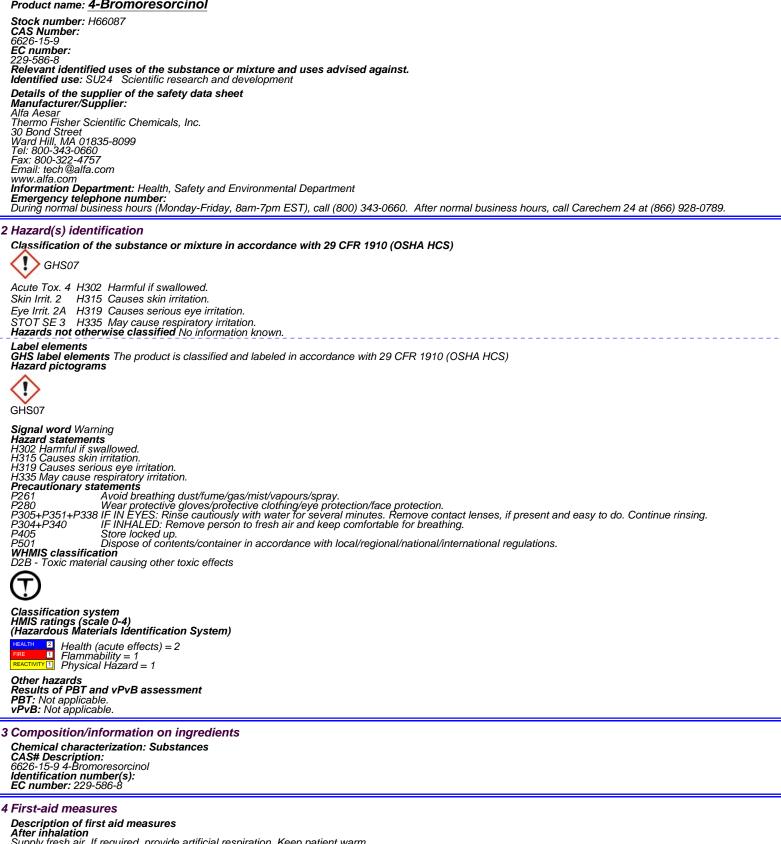




1 Identification Product identifier

Product name: 4-Bromoresorcinol



After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

(Contd. of page 1)

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. 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) 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 product to reach sewage system or any water course. 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 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: Do not store together with acids. Store away from oxidizing agents. Store away from acid chlorides. Store away from acid anhydrides. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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. Recommended filter device for short term use: Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves 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: Powder Color: Pink

Product name: 4-Bromoresorcinol

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		(Contd. of page 2
Odor:	Odorless Not determined	
Odor threshold: pH-value:	Not determined. Not applicable.	
Change in condition		
Melting point/Melting range:	97-100 °C (207-212 °F) 150 °C (302 °F) (12mm)	
Boiling point/Boiling range: Sublimation temperature / start:	150 °C (302 °F) (12mm) Not determined	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature: Decomposition temperature:	Not determined Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower:	Not determined	
Upper:	Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water):	Not determined : Not determined.	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
0 Stability and reactivity		
Possibility of hazardous reactions Rea Conditions to avoid No further relevant Incompatible materials: Acids Oxidizing agents Acid chlorides	mended storage conditions. To be avoided: Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents t information available.	
Acid anhydrides Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen bromide		
Reproductive toxicity: No effects know	kin irritation. rious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	 repeated exposure: No effects known. single exposure: May cause respiratory irritation. 	
Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Additional toxicological information:	 repeated exposure: No effects known. single exposure: May cause respiratory irritation. ts known. 	
Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Additional toxicological information: T 2 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No furthe Bioaccumulative potential No further re Mobility in soil No further relevant inforr Additional ecological information: General notes:	 - repeated exposure: No effects known. - single exposure: May cause respiratory irritation. ts known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. - ormation available. - relevant information available. - elevant information available. - mation available. - guantities to reach ground water, water course or sewage system. t 	
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Product name: 4-Bromoresorcinol	
T error and the second states (1.5.)	(Contd. of page 3
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA Class	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
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:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	
GHS label elements The product is classifie Hazard pictograms GHS07 GHS07 Signal word Warning Hazard statements H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H325 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume P280 Wear protective gloves/pr P305+P351+P338 IF IN EYES: Rinse caution P304+P340 IF INHALED: Remove per P405 Store locked up. P501 Dispose of contents/conta National regulations This product is not listed in the U.S. Environm to research and development only. This product pur This product is not listed on the Canadian Do SARA Section 313 (specific toxic chemica California Proposition 65 Prop 65 - Chemicals known to cause canc Prop 65 - Developmental toxicity, uale Su Prop 65 - Developmental toxicity, male Su Information about limitation of use: Foruse	otective clothing/eye protection/face protection. usly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. son to fresh air and keep comfortable for breathing. inner in accordance with local/regional/national/international regulations. mental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted uct must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This poses or in formulations for commercial purposes. mestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). I listings) Substance is not listed. e is not listed. Substance is not listed. bustance is not listed.
market and use must be observed.	according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. o Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
Substance is not listed. Annex XIV of the REACH Regulations (req Chemical safety assessment: A Chemical S	uiring Authorisation for use) Substance is not listed. Safety Assessment has not been carried out.
6 Other information	s 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 the health and safety of employees. This information is furnished without warranty, and any use of the product not in theet, or in combination with any other product or process, is the responsibility of the user.
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Department issuing SDS: Global Marketing Date of preparation / last revision 11/23/20	115/-
Department issuing SDS: Global Marketing Date of preparation / last revision 11/23/20	115/-
Department issuing SDS: Global Marketing Date of preparation / last revision 11/23/20	Department 115 / - langereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ical Substances Chemical Society) m (Canada) lygienists (USA)