



Revisio	n date 04/04/2016
1 Identification	
Product identifier Product name: 2-Bromo-5-hydroxybenzaldehyde	
Stock number: H64884	
CAS Number:	
2973-80-0 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 Thermo Fisher 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)	
GHS07	
Acute Tox. 4 H302 Harmful 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	
GHS07	
Signal word Warning Hazard statements	
H302 Harmful if swallowed. Precautionary statements	
P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product.	
P330 Rinse mouth.	
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification Not controlled Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH Image: Prescript of the second sec	
FIRE 1 Flammability = 1 REACTIVITY 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:	
2973-80-0 2-Bromo-5-hydroxybenzaldehyde	
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 Harmful if swallowed.	
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)	(Contd on page 2)
	(Contd. on page 2)

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Product name: 2-Bromo-5-hydroxyb	enzaldehyde
Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.	(Contd. of page 1
6 Accidental release measures Personal precautions, protective equi Wear protective equipment. Keep unprot Ensure adequate ventilation Environmental precautions: Do not allo	ected persons away. The sewage system or any water course. It and cleaning up: Dispose of contaminated material as waste according to section 13. special measures required. Indling
Conditions for safe storage, including Storage Requirements to be met by storeroom	explosions and fires: No information known. any incompatibilities as and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. aditions: ad containers.
Control parameters Components with limit values that req The product does not contain any releval Additional information: No data Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for he Keep away from foodstuffs, beverages a Remove all soiled and contaminated clod Wash hands before breaks and at the er Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Recommended filter device for short t Use a respirator with type P100 (USA) on purifying respirators are appropriate. On Protection of hands:	If technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. unire monitoring at the workplace: nt quantities of materials with critical values that have to be monitored at the workplace. wires andling chemicals should be followed. nd feed. thing immediately. ad of work. orking environment. oirator when high concentrations are present. term use: r 93 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- ty use equipment tested and approved under appropriate government standards. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.
9 Physical and chemical properties	
Information on basic physical and che General Information Appearance: Form: Odor:	emical properties Solid Not determined
Odor threshold: pH-value:	Not determined. Not applicable.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	130-135 °C (266-275 °F) Not determined Not determined Not determined Not determined Not determined Not determined Not determined Not determined
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water:	Not determined Not determined Not determined Not applicable. Not determined. Not applicable. Not applicable. Not determined Not determined

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	(Contd. of page 2)
Partition coefficient (n-octanol/water): Not determined. Viscosity:	
dynamic: Not applicable.	
kinematic: Not applicable. Other information No further relevant information availa	ble.
10 Stability and reactivity	
Reactivity No information known. Chemical stability Stable under recommended storage conditions.	
Thermal decomposition / conditions to be avoided: Decomposition will not Possibility of hazardous reactions Reacts with strong oxidizing agents	occur if used and stored according to specifications.
Conditions to avoid No further relevant information available.	
Hazardous decomposition products:	
Carbon monoxide and carbon dioxide Hydrogen bromide	
11 Toxicological information	
Information on toxicological effects	
Acute toxicity: Harmful if swallowed. LD/LC50 values that are relevant for classification: No data	
Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation	
Sensitization: No sensitizing effects known	
Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this mat	erial is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive foxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects know	vn.
Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.	
Subacute to chronic toxicity: No effects known.	and abrania tavialty of this substance is not fully known
Additional toxicological information: To the best of our knowledge the acute Carcinogenic categories	
OSHA-Ca (Occupational Safety & Health Administration) Substance is not	listed.
12 Ecological information	
Toxicity	
Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available.	
Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.	
Ecotoxical effects:	
Remark: Very toxic for aquatic organisms Additional ecological information: General notes:	
Do not allow product to reach ground water, water course or sewage system.	
Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.	
Avoid transfer into the environment. Verv toxic for aquatic organisms	
Very toxic for aquatic organisms Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	
Other adverse effects No further relevant information available.	
13 Disposal considerations	
Waste treatment methods Recommendation Consult state, local or national regulations to ensure prope	r disposal.
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	
14 Transport information UN-Number	
DOT, IMDĠ, IATA	UN3077
UN proper shipping name DOT	Environmentally hazardous substances, solid, n.o.s. (2-Bromo-5- hydroxybenzaldehyde)
IMDG, IATA	hydroxybenzaldehyde) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-Bromo-5-
	hydroxybenzaldehyde)
Transport hazard class(es) DOT, IMDG	
۵۵۱, mbe	
Class	9 Miscellaneous dangerous substances and articles.
Label Class	9 9 (M7) Miscellaneous dangerous substances and articles
Label IATA	9
Class	9 Miscellaneous dangerous substances and articles.
	(Contd. on page 4) USA

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abel	9
Packing group DOT, IMDG, IATA	<i>III</i>
nvironmental hazards:	
pecial marking (ADR): pecial marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
pecial precautions for user MS Number:	Warning: Miscellaneous dangerous substances and articles
ins Number: Transport in bulk according to Annex II of MARPOL73/	<i>F-A,S-F</i>
ransport/Additional information:	
OOT farine Pollutant (DOT):	No
IN "Model Regulation":	UN3077. Environmentally hazardous substances. solid. n.o.s. (2-Bromo-5-
	hydroxybenzaldehyde), 9, III
Regulatory information	
Cafety, health and environmental regulations/legislatic SHS label elements The product is classified and labeled lazard pictograms SHS07	on specific for the substance or mixture d in accordance with 29 CFR 1910 (OSHA HCS)
ARA Section 313 (specific toxic chemical listings) Su california Proposition 65 prop 65 - Chemicals known to cause cancer Substance prop 65 - Developmental toxicity, female Substance is no prop 65 - Developmental toxicity, male Substance is no formation about limitation of use: For use only by tech other regulations, limitations and prohibitive regulation	doctor if you feel unwell. with local/regional/national/international regulations. ction Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restr used by or directly under the supervision of a technically qualified individual as defined by TSCA. This ormulations for commercial purposes. tances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). ubstance is not listed. e is not listed. d. not listed. of listed. of listed. of the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on orisation for use) Substance is not listed.
formation to ensure proper use and protect the health an onformance with this Material Safety Data Sheet, or in co Department issuing SDS: Global Marketing Department Jate of preparation / last revision 04/05/2016 / -	ent to other information gathered by them, and should make independent judgement of suitability of this nd safety of employees. This information is furnished without warranty, and any use of the product not ombination with any other product or process, is the responsibility of the user. Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) y)