



1 Identification

Product identifier Product name: 2-Bromo-1,4-dimethoxybenzene Stock number: A15640, L07148 CAS Number: 25245-34-5 EC number: 246-756-7 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. Inerrito Fisher Scheman C. 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 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. 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 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/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 WHMIS classification D2B - Toxic material causing other toxic effects Ţ Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammàbility = 1 TIVITY 1 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: 25245-34-5 2-Bromo-1,4-dimethoxybenzene Identification number(s): EC number: 246-756-7 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. (Contd. on page 2)

Product name: 2-Bromo-1,4-dimethoxybenzene (Contd. of page 1) 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 freatment 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 firefireture 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:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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. 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: Color: Liauid Yellow tint Odor: Not determined Odor threshold: Not determined pH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined 260-262 °C (500-504 °F) Not determined Flash point: > 110 °C (> 230 °F)

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Product name: 2-Bromo-1,4-dimetho	oxybenzene	
		(Contd. of page 2)
Flammability (solid. gaseous)	Not determined.	(00///d. 0/ page 2/
Flammability (solid, gaseous) Ignition temperature:	Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not determined	
Density at 20 °C (68 °F):	1.445 g/cm³ (12.059 lbs/gal)	
Relative density	Not determined.	
Vapor density Evaporation rate	Not determined. Not determined.	
Solubility in / Miscibility with		
Water: Partition coefficient (n-octanol/water):	Not determined : Not determined.	
Viscosity:		
dynamic: kinematic:	Not determined. Not determined.	
Other information	Not determined. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		1
Chemical stability Stable under recomn	nended storage conditions.	1
Thermal decomposition / conditions to Possibility of hazardous reactions No	t o be avoided: Decomposition will not occur if used and stored according to specifications.	1
Conditions to avoid No further relevant	t information available.	1
Incompatible materials: Oxidizing agen	its	1
Hazardous decomposition products: Carbon monoxide and carbon dioxide		
Hydrogen bromide		
11 Torrigological information		
11 Toxicological information		1
Information on toxicological effects Acute toxicity: No effects known.		1
LD/LC50 values that are relevant for cl		1
Skin irritation or corrosion: Causes ski	kin irritation.	1
Eye irritation or corrosion: Causes sen Sensitization: No sensitizing effects kno		1
Germ cell mutagenicity: No effects kno	own.	1
Carcinogenicity: No classification data of	on carcinogenic properties of this material is available from the EPA. IARC, NTP, OSHA or ACGIH.	1
Reproductive toxicity: No effects known Specific target organ system toxicity -	- repeated exposure: No effects known.	1
Specific target organ system toxicity	- single exposure: May cause respiratory irritation.	1
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect	to known	1
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	1
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12 Ecological information		
Toxicity	е	
Aquatic toxicity: No further relevant info Persistence and degradability No furth		
Bioaccumulative potential No further re	elevant information available.	
Mobility in soil No further relevant inforr Additional ecological information:	mation available.	
General notes:		
	he environment without proper governmental permits. quantities to reach ground water, water course or sewage system.	
Do not allow undiluted product or large q Avoid transfer into the environment.	juantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessment	t	
PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further releval	ant information available.	
13 Disposal considerations		
Waste treatment methods	the star whether to serve proportion and	
Uncleaned packagings:	or national regulations to ensure proper disposal.	
Recommendation: Disposal must be ma	ade according to official regulations.	
11 Turner out information		
14 Transport information Not a hazardous material for transportation	ion	
UN-Number	<u>л.</u>	
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	Nono	
	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	(Quetel en noro 4)
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Transport in bulk according to Annex II of MARPOL7	73/78 and the IBC Code Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
DOT Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulations/legislat GHS label elements The product is classified and labele Hazard pictograms GHS07	tion specific for the substance or mixture ed in accordance with 29 CFR 1910 (OSHA HCS)
Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/v P280 Wear protective gloves/protective clo P305+P351+P338 IF IN EYES: Rinse cautiously with we P304+P340 IF INHALED: Remove person to fresh P405 Store locked up. P501 Dispose of contents/container in acco National regulations All components of this product are listed in the U.S. Envi SARA Section 313 (specific toxic chemical listings) California Proposition 65 Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is r Information about limitation of use: For use only by technically qualified individuals. This substance is subject to a Significant New Use Rule This product is being solut for research and development	 thing/eyé protection/face protection. ther for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. h air and keep comfortable for breathing. ordance with local/regional/national/international regulations. ironmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Substance is not listed. ed. s not listed. not listed. (SNUR) promulgated under Section 5(a)(2) of the Toxic Substances Control Act (TSCA). See 40 CFR 1 tuse. t use. 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
information to ensure proper use and protect the health of conformance with this Material Safety Data Sheet, or in Department issuing SDS: Global Marketing Departmer Date of preparation / last revision 11/24/2015 / -	nent to other information gathered by them, and should make independent judgement of suitability of thi and safety of employees. This information is furnished without warranty, and any use of the product not combination with any other product or process, is the responsibility of the user. nt
Abbreviations and acronyms: RID: Réglement international concernant le transport des marchandises de IATA-DGR: Dangerous Goods Regulations by the "International Air Transp ICAO: International Civil Aviation Organization ICAO: International Kivil Aviation Organization DT: US Department of Transport Association INTA: International Air Transport Association IATA: International Air Transport Association UNIS: Hazardous Materials Information System (ICA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent VPWB: very Persistent 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) ort Association" (IATA) ation" (ICAO) ss ety)