



1 Identification Product identifier
Product Identifier Product name: <b>2-Amino-5-bromobenzaldehyde</b>
Stock number: H33491
CAS Number: 29124-57-0 Pelevant identified uses of the substance or mixture and uses advised against
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
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.
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
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GHS07
Signal word Warning Hazard statements         H315 Causes skin irritation.         H315 Causes serious eye 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.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects
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Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH       I         FIRE       I         Flammability = 1         REACTIVITY I         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:
29124-57-0 2-Amino-5-bromobenzaldehyde
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 śwallowing Seek medical treatment. (Contd. on page 2)

## Product name: 2-Amino-5-bromobenzaldehyde (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 Handle under dry protective gas. 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 air. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is air sensitive. 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. Exposure controls Personal protective equipment The usual 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 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. 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: Solid Color: Yellow Not determined Odor: Odor threshold: Not determined pH-value: Not applicable. Change in condition 75-77 °C (167-171 °F) Melting point/Melting range: Boiling point/Boiling range: Not determined (Contd. on page 3)

## Product name: 2-Amino-5-bromobenzaldehvde

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Product name: 2-Amino-5-bromoben	zaldehyde	
		(Contd. of page 2
Flammability (solid, gaseous)	Not determined Not determined	
	Not determined Not determined	
Auto igniting: Danger of explosion:	Not determined. Not determined.	
Explosion limits:		
	Not determined Not determined	
Density:	Not applicable. Not determined	
Vapor density	Not determined. Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water: Partition coefficient (n-octanol/water):	Not determined Not determined	
Viscosity: dynamic:	Not applicable.	
	Not applicable. No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known.		
Chemical stability Stable under recomm	nended storage conditions. <b>b be avoided:</b> Decomposition will not occur if used and stored according to specifications.	
Possibility of hazardous reactions Rea Conditions to avoid No further relevant	acts with strong oxidizing agents	
Incompatible materials:		
All Oxidizing agents Hazardous decomposition products:		
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 cl		
Skin irritation or corrosion: Causes ski Eye irritation or corrosion: Causes sen	ious eye irritation.	
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	WN.	
Reproductive toxicity: No effects known	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Specific target organ system toxicity - Specific target organ system toxicity -	repeated exposure: No effects known. single exposure: May cause respiratory irritation.	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect.		
Additional toxicological information: 7	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 info	ormation available.	
Persistence and degradability No furthe Bioaccumulative potential No further re Mobility in soil No further relevant inform	er relevant information available. elevant information available.	
Mobility in soil No further relevant inform Additional ecological information:	nation available.	
General notes: Do not allow material to be released to th	e environment without proper governmental permits.	
Do not allow undiluted product or large q Avoid transfer into the environment.	uantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessment PBT: Not applicable.		
vPvB: Not applicable. Other adverse effects No further releval	nt information available	
13 Disposal considerations		
Waste treatment methods		
Uncleaned packagings:	r national regulations to ensure proper disposal.	
Recommendation: Disposal must be ma	ade according to official regulations.	
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group DOT, IMDG, IATA		
	Not applicable	(Contd. on page 4

(Contd. on page 4)

Product name: 2-Amino-5-bromobenzaldehyde	
	(Contd. of page 3
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73	/3/78 and the IBC Code Not applicable.
Transport/Additional information:	
DOT Marina Pallutant (DOT):	
Marine Pollutant (DOT):	No
UN "Model Regulation":	-
15 Regulatory information	
Safety, health and environmental regulations/legislati GHS label elements The product is classified and labele 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/va           P280         Wear protective gloves/protective clot           P305+P351+P338         IF IN EYES: Rinse cautiously with wat           P304+P340         IF INHALED: Remove person to fresh           P405         Store locked up.	rapours/spray. othing/eye protection/face protection. ater 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.
National regulations ' This product is not listed in the U.S. Environmental Protect	ection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted e used by or directly under the supervision of a technically qualified individual as defined by TSCA. This formulations for commercial purposes.
Prop 65 - Chemicals known to cause cancer Substanc Prop 65 - Developmental toxicity Substance is not liste Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Substance is no Information about limitation of use: For use only by tee	ed. 's not listed. not listed. echnically qualified individuals.
Other regulations, limitations and prohibitive regulati Substance of Very High Concern (SVHC) according to The conditions of restrictions according to Article 67 market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Auth	tions to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. 7 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on th
Chemical safety assessment: A Chemical Safety Asses	issment has not been carried out.
information to ensure proper use and protect the health a conformance with this Material Safety Data Sheet, or in c	ment 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 in 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 / -	
OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)	·

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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