



1 Identification

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| Product identifier |
| Product name: 2-Amino-4-bromobenzoic acid |
| Stock number: H55829 CAS Number: 20776-50-5 |
| EC number: 244-025-7 |
| 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. 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 |
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| 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 Pailth (acute effects) = 2 |
| 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: 20776-50-5 2-Amino-4-bromobenzoic acid Identification number(s): EC number: 244-025-7 |
| 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. |
| 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. (Contd. on page 2) |

| Toduct name. 2-Ammo-4-bi omobel | | |
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| 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 bromide (HBr) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. | stance or mixture llowing can be released: | (Contd. of page 1) |
| 6 Accidental release measures Personal precautions, protective equ Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not al Methods and material for containmer Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha See Section 8 for information on person See Section 13 for disposal information. | tected persons away. The environment without proper governmental permits. Tow material to be released to the environment without proper governmental permits. t and cleaning up: Dispose of contaminated material as waste according to section 13. special measures required. | |
| Conditions for safe storage, including Storage Requirements to be met by storeroom | a. explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. Imon storage facility: Store away from oxidizing agents. Inditions: | |
| Control parameters Components with limit values that rea | of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. | |
| Exposure controls Personal protective equipment General protective and hygienic mea The usual precautionary measures for h Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash hands before breaks and at the e Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Recommended filter device for short Use a respirator with type P100 (USA) o purifying respirators are appropriate. Of Protection of hands: Impervious gloves Check protective gloves prior to each us | andling chemicals should be followed. and feed. thing immediately. nd of work. yorking environment. pirator when high concentrations are present. term use: rr P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to a rly use equipment tested and approved under appropriate government standards. re for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) 480 | letermine if air- |
| 9 Physical and chemical properties | | |
| Information on basic physical and ch General Information Appearance: Form: Odor: | emical properties Solid Not determined | |
| Odor threshold: | Not determined. | |
| pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: | Not applicable. 230-234 °C (446-453 °F) Not determined Not determined. Not determined. Not determined Not determined Not determined. | |
| Danger of explosion: Explosion limits: Lower: Upper: | Not determined. Not determined Not determined | (Centel and a construction of the |
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| | | (Contd. of page 2) | |
| 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 applicable. Not determined Not determined. Not applicable. Not determined Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. No further relevant information available. | | |
| 10 Stability and reactivity | | | |
| Reactivity No information known. Chemical stability Stable under recomr | o be avoided: Decomposition will not occur if used and stored according to specifications. acts with strong oxidizing agents information available. | | |
| 11 Toxicological information | | | |
| Reproductive foxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effect Additional toxicological information: Carcinogenic categories | e irritation irritation own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. - repeated exposure: No effects known. - single exposure: No effects known. | | |
| 12 Ecological information | | | |
| Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No furth Bioaccumulative potential No further n Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to th | er relevant information available. elevant information available. mation available. he environment without proper governmental permits. uantities to reach ground water, water course or sewage system. | | |
| 13 Disposal considerations | | | |
| Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be m | r national regulations to ensure proper disposal. 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 | | |
| 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): | Νο | | |
| | | (Contd. on page 4) | |

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Product name: 2-Amino-4-bromobenzoic acid

UN "Model Regulation":

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture 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. National regulations. This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). This product is not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. 16 Other information Employers should use this information only as 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 conformance with this Material Safety Data Sheet, or 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 06/20/2016 / -Date of preparation / last revision 06/20/2016'/ -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation EURCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 50 percent UPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Protection Agency (USA) ARC: International Protection Agency (USA) Accute Tox. 4: Acute toxicity, Hazard Category 4 USA