



| Reviewed on 02/2 | 27/2007 |
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| 1 Identification | |
| Product identifier | |
| Product name: 2-Bromo-5-iodotoluene | |
| Stock number: B22462, L19607 CAS Number: | |
| 202865-85-8 | |
| 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. | |
| Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) | |
| Hazard pictograms | |
| \wedge | |
| | |
| 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/sprav | |
| 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. | |
| 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 1 Health (acute effects) = 1 EXECUTE 1 F is a mapping to the second | |
| 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: | |
| 202865-85-8 2-Bromo-5-iodotoluene | |
| 4 First-aid measures | |
| Description of first aid measures | |
| After inhalation Supply fresh air. If required, provide artificial respiration, Keep patient warm | |
| Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin patient | |
| After skin contact Immediately wash with water and soap and rinse thoroughly. | |
| Seek immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. | |
| After swallowing Seek medical tréatment. (Contd. on | n page 2 |
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Product name: 2-Bromo-5-iodotoluene (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 Hydrogen bromide (HBr) Hydrogen iodide (HI) 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. Store in the dark. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from exposure to light. 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 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 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: Liquid Odor: Odor threshold: Not determined Not determined pH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not determined Not determined Flash point: Not determined

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| Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: Danger of explosion: Explosion limits: Lower: Upper: | ene Not determined. | |
|---|--|-----------------|
| Ignition temperature: Decomposition temperature: Auto igniting: Danger of explosion: Explosion limits: Lower: | Not determined. | |
| Ignition temperature: Decomposition temperature: Auto igniting: Danger of explosion: Explosion limits: Lower: | Not determined. | |
| Ignition temperature: Decomposition temperature: Auto igniting: Danger of explosion: Explosion limits: Lower: | Not determined. | (Contd. of page |
| Decomposition temperature: Auto igniting: Danger of explosion: Explosion limits: Lower: | Not determined | |
| Danger of explosion: Explosion limits: Lower: | Not determined | |
| Lower: | Not determined. | |
| Lower: | Product does not present an explosion hazard. | |
| | Not determined | |
| UDDEI. | Not determined | |
| Vapor pressure: | Not determined | |
| Density: Relative density | Not determined Not determined. | |
| Vapor density | Not determined. Not determined. | |
| Evaporation rate | Not determined. | |
| Solubility in / Miscibility with Water: | Nat data unional | |
| Partition coefficient (n-octanol/water | Not determined r): Not determined. | |
| Viscosity: | , | |
| dynamic: kinematic: | Not determined. Not determined. | |
| Other information | Not determined. No further relevant information available. | |
| | | |
|) Stability and reactivity | | |
| • | | |
| Reactivity No information known. Chemical stability Stable under recom | nmended storage conditions | |
| Thermal decomposition / conditions | to be avoided: Decomposition will not occur if used and stored according to specifications. | |
| Possibility of hazardous reactions N | lo dangerous reactions known | |
| Conditions to avoid No further relevan Incompatible materials: | nt information available. | |
| Oxidizing agents | | |
| Light | | |
| Hazardous decomposition products: | : | |
| Carbon monoxide and carbon dioxide Hydrogen bromide | | |
| Hydrogen iodide (HI) | | |
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| 1 Toxicological information | | |
| Information on toxicological effects | | |
| Acute toxicity: No effects known. | | |
| LD/LC50 values that are relevant for | classification: No data | |
| Skin irritation or corrosion: Causes s | skin irritation. | |
| Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kr | erious eye irritation. | |
| Germ cell mutagenicity: No effects kr | IOWN. Johan | |
| Carcinogenicity: No classification data | nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. | |
| Reproductive toxicity: No effects know | own. | |
| Specific target organ system toxicity | y - repeated exposure: No effects known. y - single exposure: May cause respiratory irritation | |
| Aspiration hazard: No effects known. | y - single exposure: May cause respiratory irritation. | |
| Subacute to chronic toxicity: No effe | icts known. | |
| Additional toxicological information: | To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. | |
| | | |
| 2 Ecological information | | |
| Toxicity | · · · - 4.11. | |
| Aquatic toxicity: No further relevant in Persistence and degradability No fur Bioaccumulative potential No further Mobility in soil No further relevant info | Iformation available. | |
| Bioaccumulative potential No further | rielevant information available. | |
| Mobility in soil No further relevant infc | irmation available. | |
| Additional ecological information: | | |
| General notes: | the environment without proper governmental permits. | |
| Do not allow undiluted product or large | ule environment wurdou proper governmental permis. nuantities to reach around water, water course or sewage system. | |
| Avoid transfer into the environment. | quantities to reach ground water, water course or sewage system. | |
| Results of PBT and vPvB assessmer PBT: Not applicable. | nt | |
| vPvB: Not applicable. | | |
| | /ant information available. | |
| Other adverse effects No further relev | | |
| | | |
| 3 Disposal considerations | | |
| 3 Disposal considerations Waste treatment methods | | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local | or national regulations to ensure proper disposal. | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: | | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local | | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n 4 Transport information | made according to official regulations. | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be m | made according to official regulations. | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be m Transport information Not a hazardous material for transporta UN-Number | made according to official regulations. | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n 1 Transport information Not a hazardous material for transporta | made according to official regulations. | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n Transport information Not a hazardous material for transporta UN-Number DOT, IMDG, IATA UN proper shipping name | made according to official regulations. | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be m Transport information Not a hazardous material for transporta UN-Number | made according to official regulations. | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n Transport information Not a hazardous material for transporta UN-Number DOT, IMDG, IATA UN proper shipping name | made according to official regulations. ation. None | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be m Transport information Not a hazardous material for transporta UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) | made according to official regulations. ation. None | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n 1 Transport information Not a hazardous material for transporta UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA | made according to official regulations. ation. None | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n Transport information Not a hazardous material for transporta UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA Class | made according to official regulations. ation. None None | |
| 3 Disposal considerations Waste treatment methods Recommendation Consult state, local Uncleaned packagings: Recommendation: Disposal must be n Transport information Not a hazardous material for transporta UN-Number DOT, IMDG, IATA UN proper shipping name DOT, IMDG, IATA Transport hazard class(es) DOT, ADR, IMDG, IATA | made according to official regulations. ation. None None | (Contd. on page |

| Product name: 2-Bromo-5-iodotoluene | | |
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| | (Contd. of page 3 | |
| 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: | Not dangerous according to the above specifications. | |
| DOT Marine Pollutant (DOT): | No | |
| | | |
| 5 Regulatory information | | |
| Safety, health and environmental regulations/legislation s GHS label elements The product is classified and labeled in Hazard pictograms | specific for the substance or mixture accordance with 29 CFR 1910 (OSHA HCS) | |
| | | |
| GHS07 | | |
| P304+P340 IF INHALED: Remove person to fresh air a P405 Store locked up. Store locked up. P501 Dispose of contents/container in accordan National regulations This product is not listed in the U.S. Environmental Protection to research and development only. This product must be used product must not be used for commercial purposes or in form SARA Section 313 (specific toxic chemical listings) Subst California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Substance of Very High Concern (SVHC) according to the | <pre>//eye protection/face protection. or several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. and keep comfortable for breathing. nce with local/regional/national/international regulations. n Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted d by or directly under the supervision of a technically qualified individual as defined by TSCA. This nulations for commercial purposes. tance is not listed. not listed. isted. cally qualified individuals. e REACH Regulations (EC) No. 1907/2006. Substance is not listed. d Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the</pre> | |
| information to ensure proper use and protect the health and s | to other information gathered by them, and should make independent judgement of suitability of this safety of employees. This information is furnished without warranty, and any use of the product not in bination 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 / - Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent VPVB: 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) | | |