



1 Identification Product identifier Product name: 5-Bromoindole Stock number: B20307, L14319 CAS Number: 10075-50-0 EC number: 233-208-7 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 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: 10075-50-0 5-Bromoindole Identification number(s): EC number: 233-208-7 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)

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(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 Nitrogen oxides (NOx) Hurdrogen brownide (NPr) Nillogen Oxloes (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 product to reach sewage system or any water course. 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.

Not determined

Not determined

7 Handling and storage

Sublimation temperature / start:

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: 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 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. 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: Powder Color: White to pale brown Odor: Odor threshold: Odorless Not determined. pH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Boiling range: 89-92 °C (192-198 °F)

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Product name: 5-Bromoindole	
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Flammability (solid, gaseous)	(Contd. of page(Contd. of page(
Ignition temperature:	Not determined
Decomposition temperature: Auto igniting:	Not determined Not determined.
	Not determined.
Danger of explosion: Explosion limits:	
Lower: Upper:	Not determined Not determined
Vapor pressure:	Not applicable.
Density: Relative density	Not determined Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water:	Insoluble
Partition coefficient (n-octanol/water)	
Viscosity: dynamic:	Not applicable.
kinematic:	Not applicable.
Other information	No further relevant information available.
0 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 Re Conditions to avoid No further relevan	eacts with strong oxidizing agents
Incompatible materials: Oxidizing age	ents
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 o	
Skin irritation or corrosion: Causes sl Eye irritation or corrosion: Causes se	skin irritation.
Sensitization: No sensitizing effects kn	nown.
Germ cell mutagenicity: No effects kn	nown.
Reproductive toxicity: No effects know	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Specific target organ system toxicity	y - repeated exposure: No effects known.
Specific target organ system toxicity Aspiration hazard: No effects known.	y - single exposure: May cause respiratory irritation.
Subacute to chronic toxicity: No effect	cts known.
Additional toxicological Information.	: 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 int	iformation available.
Persistence and degradability No furth Bioaccumulative potential No further	ther relevant information available.
Mobility in soil No further relevant info	relevant information available. Internation available
Additional ecological information:	
General notes: Avoid transfer into the e Results of PBT and vPvB assessmen	
PBT: Not applicable.	<i>n</i>
vPvB: Not applicable. Other adverse effects No further releva	test information available
Uther adverse enects no further releve	ant information available.
13 Disposal considerations	
Waste treatment methods	
Recommendation Consult state, local of	or national regulations to ensure proper disposal.
Uncleaned packagings: Recommendation: Disposal must be m	made 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 on Book In
	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	
· · · ·	Not applicable.
· · · ·	Not applicable. Ex II of MARPOL73/78 and the IBC Code Not applicable. (Contd. on page US

Safety Data Sheet per OSHA HazCom 2012

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Transport/Additional information: (Cond. of DT Marine Pollutant (DOT): No Wirkde Regulation*: - Steps, health and environmental regulations/legislation specific for the substance or mixture GMS labeled interements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Wirkde Regulation*: - Wirkde Regulation*: - Wirkde Regulation*: - GIS 12 Gistic for the substance or mixture GMS labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Wirkde Regulation*: - Wirkde Regulation*: - Signal word Warning Hazard statements - Pace Protocoments - P	Product name: 5-Bromoindole		
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Hazard statements ² H315 Causes skin irritation. H316 Qauses skin irritation. H316 Qauses skin irritation. H326 May 2000 Statements Produitions of protective glocity irritation. H236 May 2000 Statements Produitions of the VES. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304-P304 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304-P304 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304-P304 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. 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 rest 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. The This product is not listed in the U.S. Environmental Substance is to Use to Use the Substance Substan	GHS07		
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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)	vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industri OSH4: Occupational Safety and Health Administration (ial Hygienists (USA) (USA)	
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