



1 Identification Product identifier Product name: 4-Benzyloxyindole

Stock number: L17147 CAS Number: 20289-26-3 EC number: 243-690-0 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) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known.

I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)



Health (acute effects) = 1Flammability = 1 Flammability = 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: 20289-26-3 4-Benzyloxyindole Identification number(s): EC number: 243-690-0

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 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 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 cyanide (HCN) 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.

| Product name: 4-Benzyloxyindole | | | | | |
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| | Methods and material for containment Prevention of secondary hazards: No s | and cleaning up: Pick up mechanically. special measures required. | | | |
| | Reference to other sections See Section 7 for information on safe han | | | | |
| l | See Section 8 for information on personal See Section 13 for disposal information. | I protection equipment. | | | |
| ľ | 7 Handling and storage | | | | |
| | Handling Precautions for safe handling | | | | |
| | Keep container tightly sealed. Store in cool, dry place in tightly closed co | vontainare | | | |
| | Information about protection against e | 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 con Keep container tightly sealed. | nditions: | | | |
| | Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. | | | | |
| ř | 8 Exposure controls/personal protect | | <u> </u> | | |
| | Additional information about design of | f technical systems: | | | |
| | Properly operating chemical fume hood d | designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. | | | |
| | Control parameters Components with limit values that requ Additional information: No data | uire monitoring at the workplace: Not required. | | | |
| | Exposure controls Personal protective equipment | | | | |
| | General protective and hygienic measures for ha | andling chemicals should be followed | | | |
| | Keep away from foodstuffs, beverages an Remove all soiled and contaminated cloth | nd feed. 'hing immediately. | | | |
| | Wash hands before breaks and at the end Maintain an ergonomically appropriate wo | nd of work. | | | |
| | Breathing equipment: Use suitable resp Protection of hands: | birator when high concentrations are present. | | | |
| | 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. Ponetration 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. | | | | |
| F | 9 Physical and chemical properties | - | | | |
| ł | Information on basic physical and che | | | | |
| | General Information | | | | |
| | Form: Color: | Powder White | | | |
| | Odor: | Not determined Not determined. | | | |
| | | Not applicable. | | | |
| | | 59-61 °C (138-142 °F) | | | |
| | Boiling point/Boiling range: | Not determined | | | |
| | Flash point: | Not applicable | | | |
| | Ignition temperature: | Not determined. Not determined | | | |
| | | Not determined Not determined. | | | |
| | Danger of explosion: Explosion limits: | Product does not present an explosion hazard. | | | |
| | Lower: | Not determined Not determined | | | |
| | Vapor pressure: | Not applicable. Not determined | | | |
| | Relative density | Not determined. Not applicable. | | | |
| | | Not applicable. | | | |
| | Water: | Insoluble | | | |
| | Partition coefficient (n-octanol/water): Viscosity: | | | | |
| | dynamic: | Not applicable. | | | |

10 Stability and reactivity

dynamic: kinematic: Other information

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available.

Not applicable. Not applicable. No further relevant information available.

| | Reviewed on 07/20/200 | | | |
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| Product name: 4-Benzyloxyindole | | | | |
| Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen cyanide | (Contd. of page | | | |
| 11 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: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acu | own. 7. | | | |
| 12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without proper govern Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available. | nmental permits. | | | |
| 13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. | | | | |
| 14 Transport information Not a hazardous material for transportation. | | | | |
| UN-Number 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 | None | | | |
| Environmental hazards: | Not applicable. | | | |
| Special precautions for user | Not applicable. | | | |
| Transport in bulk according to Annex II of MARPOL73/78 and the IBC Co Transport/Additional information: | Not applicable. Not dangerous according to the above specifications. | | | |
| DOT Marine Pollutant (DOT): | 5 5 7 | | | |
| 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements Not applicable Hazard pictograms Not applicable Hazard statements Not applicable Mational 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 restrict 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. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Developmental toxicity, themale Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is not listed. Prop 65 - Developmental toxicity, the south is | | | | |
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Product name: 4-Benzyloxyindole

| 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. | (Contd. of page 3) |
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| 16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. | suitability of this the product not in |
| Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) IMDG: International Maritme Code for Dangerous Goods DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HIMIS: Hazardous Materials Identification System (USA) WHMIS: Hazardous Materials Identification System (Canada) LC50: Lethal concentration, 50 percent USO: Lethal concentration, 50 percent LD50: Lethal cose, 50 percent ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safetrial Hygienists (USA) MTP: National Toxicology Program (USA) IATP: National Toxicology Program (USA) | |