



| Reviewed on 02/05/20 |
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| 1 Identification |
| Product identifier |
| Product name: <u>5,6-Dihydroxyindole</u> |
| Stock number: H66709 CAS Number: 2121 52.0 |
| 3131-52-0 ELINCS Number: |
| 412-130-9 Index number: |
| 604-063-00-0 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. |
| 30 Bond Street Ward Hill, MA 01835-8099 |
| Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 |
| 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) |
| GHS05 Corrosion |
| Eye Dam. 1 H318 Causes serious eye damage. |
| 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 |
| |
| GHS05 GHS07 |
| Signal word Danger Hazard statements |
| H302 Harmful if swallowed. |
| H318 Causes serious eye damage. Precautionary statements |
| P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. |
| P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/ P310 Immediately call a POISON CENTER/doctor/ |
| P301+P312 IE SWALLOWED: Galla POISON CENTER/doctor//It volt teel Unwell |
| P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification |
| D2B - Toxic material causing other toxic effects |
| \mathbb{O} |
| Classification system HMIS ratings (scale 0-4) |
| (Hazardous Materials Identification System) |
| HEALTH 2 Health (acute effects) = 2 FIRE 1 Flammability = 1 File units 1 |
| REACTIVITY Physical Házard = 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: 3131-52-0 5,6-Dihydroxyindole |
| Identification number(s): |
| ELINCS Number: 412-130-9 Index number: 604-063-00-0 |
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Pre

| Product name: 5,6-Dihydroxyindole | |
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| | (Contd. of page 1) |
| 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) 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: Dispose of contaminated material as waste according to section 13. 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. Prevent formation of dust. 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. Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in well sealed containers. | |
| 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. Additional information: No data | |
| Exposure controls Personal protective equipment General protective equipment He 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. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to de purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable lowes not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Tighty sealed goggles Body protection: Protective work clothing. | etermine if air- |
| 9 Physical and chemical properties | |
| Information on basic physical and chemical properties General Information Appearance: Form: Solid | |
| | (Contd on page 3) |

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| Product name: 5,6-Dihydroxyindole | | | | | |
| | | (Contd. of page 2) | | | |
| Odor: Odor threshold: | Not determined Not determined. | | | | |
| pH-value: | Not applicable. | | | | |
| Change in condition | | | | | |
| Melting point/Melting range: | Not determined | | | | |
| Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) | Not determined Not determined | | | | |
| Flammability (solid, gaseous) Ignition temperature: | Not determined. Not determined | | | | |
| Decomposition temperature: | Not determined | | | | |
| Auto igniting: | Not determined. | | | | |
| Danger of explosion: Explosion limits: | Not determined. | | | | |
| Lower: | Not determined | | | | |
| Upper: Vapor pressure: | Not determined Not applicable. | | | | |
| Density: | Not determined | | | | |
| Relative density Vapor density | Not determined. Not applicable. | | | | |
| Evaporation rate Solubility in / Miscibility with | Not applicable. | | | | |
| Water: | Not determined | | | | |
| Partition coefficient (n-octanol/water). Viscosity: | : Not determined. | | | | |
| dynamic: | Not applicable. | | | | |
| kinematic: Other information | Not applicable. No further relevant information available. | | | | |
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| 10 Stability and reactivity | | | | | |
| Reactivity No information known. | e e e construction de la const | | | | |
| Chemical stability Stable under recomme Thermal decomposition / conditions t | to be avoided: Decomposition will not occur if used and stored according to specifications. | | | | |
| Possibility of hazardous reactions Re | eacts with strong oxidizing agents | | | | |
| Conditions to avoid No further relevant Incompatible materials: Oxidizing ager | t information available. nts | | | | |
| Hazardous decomposition products: Carbon monoxide and carbon dioxide | | | | | |
| Nitrogen oxides | | | | | |
| 11 Toyicological information | | | | | |
| 11 Toxicological information Information on toxicological effects | | | | | |
| Acute toxicity: | | 1 | | | |
| Harmful if swållowed. | al Substances (RTECS) contains acute toxicity data for this substance. | | | | |
| LD/LC50 values that are relevant for c | classification: No data | 1 | | | |
| Skin irritation or corrosion: May cause Eye irritation or corrosion: Causes set | erious eve damade. | 1 | | | |
| Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno | own. | 1 | | | |
| Carcinogenicity: No classification data | on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. | 1 | | | |
| Reproductive foxicity: No effects know | Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. | | | | |
| Specific target organ system toxicity | - repeated exposure: No effects known. - single exposure: No effects known. | 1 | | | |
| Aspiration hazard: No effects known. Subacute to chronic toxicity: No effec | | | | | |
| Additional toxicological information: | To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. | | | | |
| 42 Ecclosical information | | | | | |
| 12 Ecological information Toxicity | | | | | |
| Aquatic tovicity: No further relevant inf | formation available. | | | | |
| Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. | | | | | |
| Mobility in soil No further relevant infor | rmation available. | | | | |
| Additional ecological information: General notes: | | | | | |
| Do not allow product to reach ground wa | ater, water course or sewage system. | | | | |
| Danger to drinking water if even small que Also poisonous for fish and plankton in v | luantities leak into the ground. | | | | |
| Toxic to aquatic life. | | | | | |
| May cause long lasting harmful effects to Avoid transfer into the environment. | o aquatic life. | | | | |
| Results of PBT and vPvB assessment | t | | | | |
| PBT: Not applicable. vPvB: Not applicable. | | | | | |
| Other adverse effects No further releva | ant information available. | | | | |
| 13 Disposal considerations | | | | | |
| Waste treatment methods | | | | | |
| Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: | | | | | |
| Recommendation: Disposal must be m | ade according to official regulations. | | | | |
| 11 Transport information | | | | | |
| 14 Transport information UN-Number | | | | | |
| DOT, ADN, IMDG, IATA | Not applicable | | | | |
| | | (Contd. on page 4) | | | |
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Product name: 5,6-Dihydroxyindole

| | (Contd. of page 3) | | |
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| 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: | Environmentally hazardous substance, solid | | |
| 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): | No | | |
| UN "Model Regulation": | - | | |
| | | | |
| 15 Regulatory information Safety, health and environmental regulations/legislation specific for GHS label elements. The product is classified and labeled in accordant Hazard pictograms Image: Constraint of the product is classified and labeled in accordant Hazard pictograms Image: Constraint of the product is classified and labeled in accordant Hazard pictograms Image: Constraint of the pictograms | ice with 29 CFR 1910 (OSHA HCS) | | |
| P501 Dispose of contents/container in accordance with lo National regulations This product is not listed in the U.S. Environmental Protection Agency to research and development only. This product must be used by or dir product must not be used for commercial purposes or in formulations for This product is not listed on the Canadian Domestic Substances List (E SARA Section 313 (specific toxic chemical listings) Substance is not 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. | Initial and a linitial and a linitial | | |
| 16 Other information Employers should use this information only as a supplement to other in information to ensure proper use and protect the health and safety of e conformance with this Material Safety Data Sheet, or in combination with Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord europeen sure let ransport des marchandises dangereuses par Route (European DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (Canada) LCSD: Lethal concentration, 50 percent USD: Lethal cose, 50 percent vPuB: 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 Agency for Research on Cancer EPA: Environmental Protection Agency (USA) | | | |
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