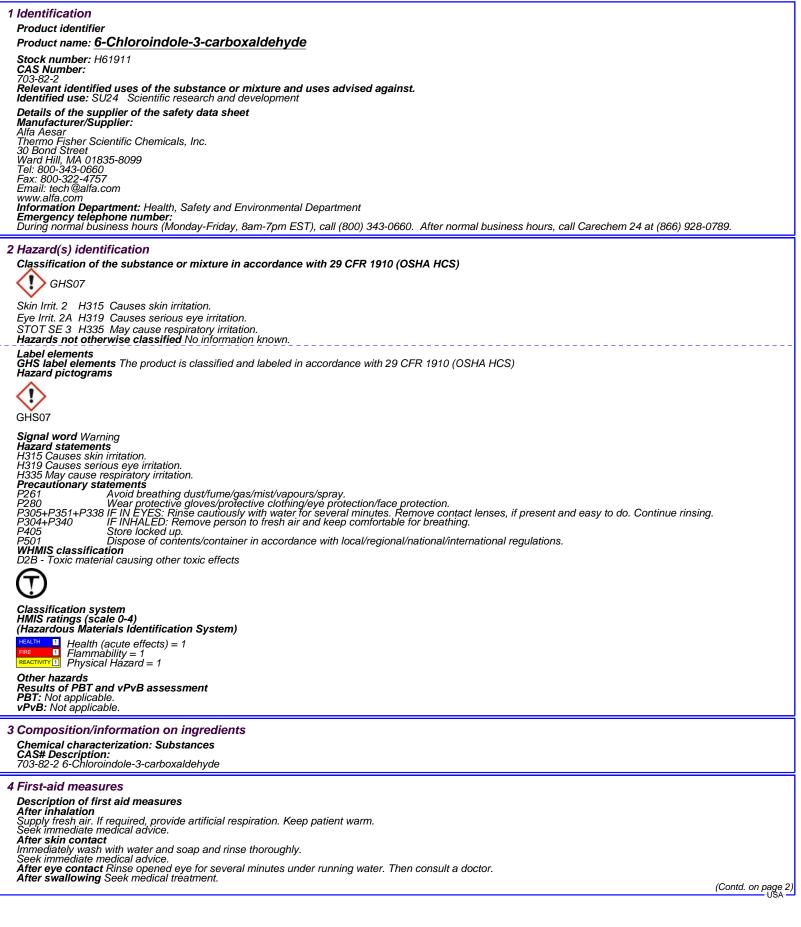


Safety Data Sheet per OSHA HazCom 2012



Product name: 6-Chloroindole-3-carboxaldehyde (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 Nitrogen oxides (NOx) Hydrogen chloride (HCI) 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. 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. 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: 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 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 aves and exin. Avoid contact with the eyes and skin. 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 N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-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 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: Form: Powder Color: Pale brown Odor: Not determined Odor threshold: Not determined Not applicable. pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation_temperature / start: Not determined Not determined Not determined Flammability (solid, gaseous) Not determined

(Contd. on page 3)

Product name: 6-Chloroindole-3-carboxaldehyde

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Safety Data Sheet per OSHA HazCom 2012

Page 4/4 Printing date 11/23/2015 Reviewed on 11/03/2014

Transport/Additional information: DOT DOT Model Regulation: UN "Model Regulation: - 15 Regulatory information Safety, health and environmental regulations/legislation specific for the substance or mixture Safety, health and environmental regulations/legislation specific for the substance or mixture Safety, health and environmental regulations/legislation specific for the substance or mixture Safety, health and environmental regulations/legislation specific for the substance or mixture Safety, health and environmental regulations/legislation specific for the substance or mixture Safety, health and environmental regulations/legislation specific for the substance or mixture Safety, health and environmental regulations/legislation specific for the substance or mixture Safety, health and environmental regulations/legislation specific for the substance or mixture Work of the substance of the substance or mixture substance or mixture Safety, Health Safet	Product name: 6-Chloroindole-3-carbox	aldehyde
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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 11/23/2015 / - 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) HMINS: Workplace Hazardous Materials Information System (Canada)	Hazard statements H315 Causes skin irritation. H315 Causes skin irritation. H315 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume P280 Wear protective gloves/pro P305+P351+P338 IF IN EYES: Rinse caution P304+P340 IF INHALED: Remove per P405 Store locked up. P501 Dispose of contents/conta National regulations This product is not listed in the U.S. Environn to research and development only. This product product must not be used for commercial purp This product is not listed on the Canadian Do SARA Section 313 (specific toxic chemical California Proposition 65 Prop 65 - Developmental toxicity, female SU Prop 65 - Developmental toxicity, female SU Information about limitation of use: For us Other regulations, limitations and prohibit Substance of Very High Concern (SVHC) at The conditions of restrictions according to market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (reg	offective clothing/eye protection/face protection. Isly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. son to fresh air and keep comfortable for breathing. iner in accordance with local/regional/national/international regulations. mental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted uct must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This poses or in formulations for commercial purposes. mestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). I listings) Substance is not listed. e is not listed. e is not listed. bustance is not listed. e only by technically qualified individuals. ive regulations incording to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. o Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the uiring Authorisation for use) Substance is not listed.
Date of preparation / last revision 11/23/2015 / - 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) UCENT ACCONDENT	Employers should use this information only a 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
ACGH; American Conference of Governmental Industrial Hydienists (USA)	Date of preparation / last revision 11/23/20 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises d DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American 0 HMIS: Hazardous Materials Identification System (USA) WHMIS: Workolace Hazardous Materials Information System	15 ⁷ / - angereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Chemical Society) η (Canada)

NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)