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1 Identification	
Product identifier Product name: 4-Chloroindole-3-acetic acid	
Stock number: H66637	
CAS Number: 2519-61-1	
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 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	
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.	
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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	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
$\begin{array}{c} (Hazardous \ Materials \ Identification \ System) \\ \hline \\ Health \ (acute \ effects) = 1 \end{array}$	
FIRE Flammability = 1 REACTIVITY 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: 2519-61-1 4-Chloroindole-3-acetic acid	
4 First-aid measures	
Description of first aid measures After inhalation Supply frequencies for a provide artificial respiration. Keen notient warm	
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 immédiate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After śwallowing Seek medical tréatment. (Contd. on	page 2)
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Product name: 4-Chloroindole-3-acetic acid (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: Solid Odor: Not determined Odor threshold: 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 Not determined Ignition temperature Not determined

(Contd. on page 3)

Product name: 4-Chloroindole-3-acetic acid

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Decomposition temperature:		(Contd. of page 2
Auto igniting:	Not determined Not determined.	
Danger of explosion: Explosion limits:	Not determined.	
Lower:	Not determined	
Upper: Vapor pressure:	Not determined Not applicable.	
Density: Relative density	Not de'termined Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water:	Not determined	
Partition coefficient (n-octanol/water) Viscosity:): Not determined.	
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recom 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 Incompatible materials: Oxidizing age	nt information available.	
Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides		
Hydrogen chloride (HCI)		
11 Toxicological information Information on toxicological effects		
Acute toxicity: No effects known. LD/LC50 values that are relevant for of Skin irritation or corrosion: Causes si Evo irritation or corrosion: Causes si	kin irritation.	
Eye irritation or corrosion: Causes se Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn Correligion det consiliation det	nown. Iown.	
Reproductive foxicity: No effects know Specific target organ system toxicity Specific target organ system toxicity	a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. wn. • - repeated exposure: No effects known. • - single exposure: May cause respiratory irritation.	
Aspiration hazard: No effects known. Subacute to chronic toxicity: No effec Additional toxicological information:	cts known. 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 in Persistence and degradability No furt Bioaccumulative potential No further I	ther relevant information available	
Mobility in soil No further relevant info Additional ecological information:	rmation available.	
General notes:	and a Constant and the second and the second and the second and the second s	
General notes: Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessmen		
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Safety Data Sheet per OSHA HazCom 2012

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roduct name: 4-Chloroindole-3-acetic acid		
	(Contd. of page 3)	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
5 Regulatory information		
Safety, health and environmental regulations/legi	islation specific for the substance or mixture abeled in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07		
 P405 Store locked up. P501 Dispose of contents/container in a National regulations This product is not listed in the U.S. Environmental P to research and development only. This product mus product must not be used for commercial purposes o This product is not listed on the Canadian Domestic S SARA Section 313 (specific toxic chemical listing California Proposition 65 Prop 65 - Chemicals known to cause cancer Subs Prop 65 - Developmental toxicity, Substance is not Prop 65 - Developmental toxicity, male Substance Information about limitations and prohibitive regulations, limitations and prohibitive regulations of restrictions according to Article market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring A Chemical Safety Assessment: A Chemical	stance is not listed. listed. ce is not listed. is not listed. by technically qualified individuals. ulations ng to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. le 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the Authorisation for use) Substance is not listed.	
information to ensure proper use and protect the hea conformance with this Material Safety Data Sheet, or	plement to other information gathered by them, and should make independent judgement of suitability of this alth and safety of employees. This information is furnished without warranty, and any use of the product not in r in combination with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing Departin Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuse DOT: US Department of Transportation CAS: Chemical Abstracts Service (division of the American Chemical S HMIS: Hazardous Materials Identification System (USA) WHMIS: Hazardous Materials Identification System (USA) WHMIS: Horkplace Hazardous Materials Information System (Canade LC50: Lethal concentration, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA)	es par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) Society) a)	

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