Revision [.]	15.02.2012
Nevision.	10.02.2012

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SECTION 1: Identification of the substa	nce/mixture and of the company/undertaking
1.1 Product identifier Trade name Stock number: CAS Number: 1.2 Relevant identified uses of the substance Identified use:	2-Chloroindole-3-carboxaldehyde H34381 5059-30-3 e or mixture and uses advised against. SU24 Scientific research and development
1.3 Details of the supplier of the safety data s Manufacturer/Supplier:	sheet Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b 76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com
Informing department: 1.4 Emergency telephone number:	www.alfa.com Product safety Tel + +049 (0) 7275 988687-0 Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number) Poison Information Center Mainz www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240
SECTION 2: Hazards identification 2.1 Classification of the substance or mixtur Classification according to Regulation (EC) I GHS07	e No 1272/2008
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation STOT SE 3 H335 May cause respiratory irritati	
Classification according to Directive 67/548/	EEC or Directive 1999/45/EC
R36/37/38: Irritating to eyes, respiratory syste Information concerning particular hazards for human and environment: Other hazards that do not result in classification	em and skin. Not applicable No information known.
2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard statements	The substance is classified and labelled according to the CLP regulation. GHS07 Warning H315 Causes skin irritation.
Precautionary statements	H319 Causes serious eye irritation. H335 May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P321 Specific treatment (see on this label).
	P321 Specific treatment (see on this label). P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards Results of PBT and vPvB assessment PBT: vPvB:	Not applicable. Not applicable.
SECTION 3: Composition/information o	on ingredients
3.1 Substances CAS# Designation:	5059-30-3 2-Chloroindole-3-carboxaldehyde
SECTION 4: First aid measures 4.1 Description of first aid measures After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
After skin contact After eye contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing 4.2 Most important symptoms and effects, both acute and delayed 4.3 Indication of any immediate medical	Seek medical treatment. No further relevant information available.
attention and special treatment needed	No further relevant information available.
SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the substance or mixture	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide
5.3 Advice for firefighters Protective equipment:	Nitrogen oxides (NOx) Hydrogen chloride (HCI) Possibly Hydrogen cyanide (HCN) Wear self-contained breathing apparatus.
rotective equipment.	Wear full protective suit.
SECTION 6: Accidental release measures	
6.1 Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:	Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental permits. Do not allow product to reach sewage system or water bodies. (Contd. on page 2)
	DE/E'

Safety data sheet according to 1907/2006/EC, Article 31

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6.3 Methods and material for containment and cleaning up: Prevention of secondary hazards: 6.4 Reference to other sections	Do not allow to enter the ground/soil. Ensure adequate ventilation. No special measures required. See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.		
SECTION 7: Handling and storage			
7.1 Precautions for safe handling	Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.		
Information about protection against			
explosions and fires: 7.2 Conditions for safe storage, including an	No information known.		
Storage Requirements to be met by storerooms and containers: Information about storage in one common storage facility:	No special requirements. Store away from oxidizing agents. Store away from air.		
Further information about storage conditions:	Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.		
7.3 Specific end use(s)	No further relevant information available.		
SECTION 8: Exposure controls/persona	I 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.		
8.1 Control parameters Components with critical 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		
8.2 Exposure controls Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Impervious gloves		
Breathing equipment: Protection of hands:	Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.		
Material of gloves Penetration time of glove material Eye protection: Body protection:	Impervious gloves Not determined Safety glasses Face protection Protective work clothing.		
SECTION 9: Physical and chemical prop			
9.1 Information on basic physical and chemical properties General Information Appearance: Form: Powder			
Colour: Smell:	Green to brown Not determined		
Odour threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature: Self-inflammability: Critical values for explosion:	≈212 °C (dec) Not determined Not determined Not determined. Not determined Not determined Not determined.		
Lower: Upper: Steam pressure: Density Relative density Vapour density	Not determined Not determined Not applicable. Not determined Not determined. Not applicable.		
Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity:	Not applicable. Not determined Not determined.		
dynamic: kinematic: 9.2 Other information	Not applicable. Not applicable. No further relevant information available.		
SECTION 10: Stability and reactivity 10.1 Reactivity 10.2 Chemical stability	No information known. Stable under recommended storage conditions. DE/E		

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Thermal decomposition / conditions to be avoided:	No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions 10.5 Incompatible materials:	No dangerous reactions known Air
10.6 Hazardous decomposition products:	Ovidizing agents Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydracan chloride (HCt)
	Possibly Hydrogen cyanide (HCN)
SECTION 11: Toxicological information	
11.1 Information on toxicological effects Acute toxicity:	No effects known.
LD/LC50 valúes that are relevant for classification:	No data
Skin irritation or corrosion: Eye irritation or corrosion:	Causes skin irritation. Causes serious eye irritation.
Sensitization: Germ cell mutagenicity:	No sensitizing efféct known. No effects known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA
Carcinogenicity:	UI ACGIN.
Reproductive toxicity: Specific target organ system toxicity -	No effects known.
repeated exposure: Specific target organ system toxicity - single	No effects known.
exposure: Aspiration hazard:	May cause respiratory irritation. No effects known.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
SECTION 12: Ecological information	
12.1 Toxicity Aquatic toxicity:	No further relevant information available.
12.2 Persistence and degradability 12.3 Bioaccumulative potential	No further relevant information available. No further relevant information available.
12.4 Mobility in soil Additional ecological information:	No further relevant information available.
General notes:	Do not allow material to be released to the environment without proper governmental permits. Water hazard class 1 (Self-assessment): slightly hazardous for water.
	Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Avoid transfer into the environment.
12.5 Results of PBT and vPvB assessment PBT:	Not applicable.
vPvB: 12.6 Other adverse effects	Not applicable. No further relevant information available.
SECTION 13: Disposal considerations	
13.1 Waste treatment methods	
Recommendation	Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.
Uncleaned packagings:	
Recommendation:	Disposal must be made according to official regulations.
SECTION 14: Transport information	
UN-Number ADR, ADN, IMDG, IATA	Not applicable
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Not applicable
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Not applicable
Packing group ADR, IMDG, IATA	Not applicable
ADR, IMDG, IATA 14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II Code	of MARPOL73/78 and the IBC Not applicable.
UN "Model Regulation":	
SECTION 15: Regulatory information	
15.1 Safety, health and environmental regulation	ations/legislation specific for the substance or mixture
Australian Inventory of Chemical Substances	Substance is not listed.
Standard for the Uniform Scheduling of Drugs and Poisons	Substance is not listed.
National regulations Information about limitation of use:	For use only by technically qualified individuals.
Water hazard class:	Employment réstrictions concerning young persons must be observed. Water hazard class 1 (Self-assessment): slightly hazardous for water.
Other regulations, limitations and prohibitive ELINCS (European List of Notified Chemical	e regulations
Substances)	Substance is not listed.
Substances of very high concern (SVHC) according to REACH, Article 57 REACH - Pre-registered substances	Substance is not listed. Substance is not listed.
15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

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Trade name 2-Chloroindole-3-carboxaldehyde

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ECTION 16: Other information ployers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of s information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the produ t in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
partment issuing data specification sheet: Health, Safety and Environmental Department. breviations and acronyms: ICAO: International Civil Aviation Organization ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Carriage o Dangerous Goods by Road) IMDC: International Maritime Code for Dangerous Goods INT International

CAS: Chemical Abstracts Service (divisi LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

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