Printing date 14.07.2010	Revision: 14.07.2010	
1 Identification of substance		
Product details		
Trade name	2-Chloro-3,4-dimethoxybenzaldehyde	
Stock number:	A10623, L20168	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthey.com	
	D-76185 Karlsruhe / Germany www.alfa-chemcat.com	
Informing department: Emergency information:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz	
Emergency mornation.	www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification		
Hazard designation:	void	
Information pertaining to particular dangers for man and environment	Not applicable	
GHS label elements	Void	
3 Composition/information on ingredients		
Chemical characterization:		
Designation: (CAS#) Identification number(s):	2-Chloro-3,4-dimethoxybenzaldehyde (CAS# 5417-17-4); 100%	
EINECS Number:	226-515-2	
4 First aid measures		
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.	
After skin contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.	
	Seek immediate medical advice.	
After eye contact After swallowing	Rinse opened eye for several minutes under running water. Then consult doctor. Seek medical treatment.	
5 Fire fighting measures		
Suitable extinguishing agents	Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed	
Special hazards caused by the material, its	containers.	
products of combustion or flue gases:	Can be released in case of fire:	
	Carbon monoxide and carbon dioxide Hydrogen chloride (HCI)	
Protective equipment:	Wear self-contained bréathing apparatus. Wear full protective suit.	
6 Accidental release measures		
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
Measures for environmental protection: Measures for cleaning/collecting:	Do not allow material to be released to the environment without proper governmental permits. Collect mechanically.	
Additional information:	See Section 7 for information on safe handling	
	See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.	
7 Handling and storage		
Handling		
Information for safe handling:	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.	
	No special precautions necessary if used correctly.	
Information about protection against explosions and fires:	No information known.	
Storage		
Requirements to be met by storerooms and containers:	No special requirements.	
Information about storage in one common		
storage facility:	Do not store together with strongly basic or oxidizing materials. Store away from air.	
Further information about storage	Store away from reducing agents.	
conditions:	Avoid contact with air / oxygen. Keep container tightly sealed.	
	Store in cool, dry conditions in well sealed containers.	
8 Exposure controls and personal protect	tion	
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.	
Components with critical values that require		
monitoring at the workplace: Additional information:	Not required. No data	
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.	
Breathing equipment:	Wash hands during breaks and at the end of the work. Use breathing protection with high concentrations.	
Eye protection: Body protection:	Safety glasses Protective work clothing.	
9 Physical and chemical properties: General Information		
Form:	Powder	
Colour: Smell:	White	
Jinen.	Not determined (Contd. on page 2)	
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Boiling point/Boiling range: Not   Sublimation temperature / start: Not   Flash point: Not   Inflammability (solid, gaseous) Pro   Ignition temperature: Not   Decomposition temperature: Not   Danger of explosion: Pro   Critical values for explosion: Pro   Lower: Not   Density Not   Steam pressure: Not   Density Not   10 Stability and reactivity Thermal decomposition / conditions to be avoided:   Materials to be avoided: Oxi   Dangerous reactions: No   Dangerous reactions: No   Dangerous reactions: No   Dangerous reactions: No   Dangerous products of decomposition: Car   Hyce Materials to interve   11 Toxicological information Acute toxicity:   Primary irritant effect: Mai   on the eye: Mai   Sensitization: No   Additional toxicological information: No   No No   Do Cob	Image: Control of page 1   (Contd. of page 1)   ot determined   ot determined   ot applicable   oduct is not inflammable.   ot determined   ot determined   oduct is not explosive.   oduct is not explosive.
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12 Ecological information: Additional ecological information: General notes: Wa Do	ay cause irritation ay cause irritation o sensitizing effect known. the best of our knowledge the acute and chronic toxicity of this substance is not fully known. o classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or CGIH.
Additional ecological information: General notes: Wa Do	
	ater hazard class 1 (Self-assessment): slightly hazardous for water. o not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. o not allow material to be released to the environment without proper governmental permits.
13 Disposal considerations	
Har	onsult state, local or national regulations for proper disposal. and over to disposers of hazardous waste. ust be specially treated under adherence to official regulations.
Uncleaned packagings: Recommendation: Dis	sposal must be made according to official regulations.
14 Transport information Land transport ADR/RID and GGVS/GGVE (cross- ADR/RID-GGVS/E Class: Nor	
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class: Nor Marine pollutant: No	
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: Nor	ine
Transport/Additional information: Not	t dangerous according to the above specifications.
The Mat	pserve the normal safety regulations when handling chemicals he product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous aterials (GefStoffV).
	r use only by technically qualified individuals. ater hazard class 1 (Self-assessment): slightly hazardous for water.
Department issuing data specification sheet: Hea	Alement to other information gathered by them, and should make independent judgement of suitability of this th and safety of employees. This information is furnished without warranty, and any use of the product not in in combination with any other product or process, is the responsibility of the user. salth, Safety and Environmental Department. chariah Holt R: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of gerous Goods by Road) S: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International nsport of Dangerous Goods by Raii) C: International Maritime Code for Dangerous Goods A: International Mariticolis by the "International Air Transport Association" (IATA) O: Th: Technical Instructions by the "International Civil Aviation Organization" (ICAO) S: Globally Harmonized System of Classification and Labelling of Chemicals ECS: European Inventory of Existing Commercial Chemical Substances S: Chemical Abstracts Service (division of the American Chemical Society)
GHS EINE CAS	A International Carl Hallsboth Castoriation A-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) O: International Civil Aviation Organization O-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) S: Clobally Harmonized Sustem of Classification and Labelling of Chemical