	Cofate Data Chart	Page 1/3
	Safety Data Sheet according to 1907/2006/EC, Article 31	
rinting date 24.08.2010		Revision: 24.08.2010
1 Identification of substance		
Product details		
Trade name	3-Isocyanatobenzoyl chloride	
Stock number:	L16002	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG	
	Benzstrasse 3 D-76185 Karlsruhe / Germany	E-mail: gcat@matthey.com www.alfa-chemcat.com
Informing department:	Product safety department.	
Emergency information:	Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification		
Hazard designation:	C Corrosive	
Information pertaining to particular dangers		
for man and environment	R 20/22 Harmful by inhalation and if swallowed. R 34 Causes burns.	
GHS label elements	R 42 May cause sensitisation by inhalation.	
GHS label elements	Danger	
	H334 - May cause allergy or asthma symptoms or breathing difficulties if inh	aled.
	Danger	
	H314 - Causes severe skin burns and eye damage.	
	Warning	
	H302 - Harmful if swallowed. H332 - Harmful if inhaled.	
Prevention:	P260 Do not breathe dust/tume/gas/mist/vapours/spray. P285 In case of inadequate ventilation wear respiratory protection.	
Response:	P285 In case of inadequate ventilation wear respiratory protection. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all co	ontaminated clothing. Rinse skin
	with water/shower.	-
Storage:	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minu present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/nation	
Disposal:	P501 Dispose of contents/container in accordance with local/regional/nation	al/international regulations.
3 Composition/information on ingredient	S	
Chemical characterization:		
Designation: (CAS#)	3-Isocyanatobenzoyl chloride (CAS# 5180-79-0): 100%	
4 First aid measures		
General information	Instantly remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration	_
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. persist.	Consult doctor if symptoms
After skin contact	Seek immediate medical advice. Instantly wash with water and soap and rinse thoroughly.	
After eye contact	Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult do	ctor.
After swallowing	Do not induce vomiting; instantly call for medical help. Seek immediate medical advice.	

	Seek immediate medical advice.			
5 Fire fighting measures				
Suitable extinguishing agents For safety reasons unsuitable extinguishing	CO2, sand, extinguishing powder. Do not use water.			
agents Special hazards caused by the material, its	Water.			
products of combustion or flue gases:	Can be released in case of fire: Carbon monoxide and carbon dioxide			
	Hydrogen chloride (HCl) Nitrogen oxides (NOx)			
Protective equipment:	Hydrogen cyanide (HCN) Wear self-contained breathing 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. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).			
	Use neutralizing agent. Dispose of contaminated material as waste according to item 13.			
Additional information:	Ensure adequate ventilation. 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:	Handle under dry protective gas.			
	Keep containers tightly sealed. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.			
Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke.			
Storage Requirements to be met by storerooms and				
containers:	Refrigerate	(Contd. on page 2)		
		GB		

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Trade name 3-Isocyanatobenzoyl chlori d	de
	(Contd. of page 1
Information about storage in one common storage facility:	Store away from oxidizing agents. Protect from heat. Store away from water. Store away from strong bases.
Further information about storage conditions:	Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Protect from humidity and keep away from water. Store in a locked cabinet or with access restricted to technical experts or their assistants. Refrigerate
8 Exposure controls and personal prote	ction
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity
	of a't least '100 feet per minute.
Components with critical values that requir monitoring at the workplace: Additional information:	e 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. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.
Breathing equipment: Protection of hands: Material of gloves	Check protection 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.
Eye protection:	Face protection Safety glasses Tightly sealed safety glasses. Full face protection
Body protection:	Protective work clothing.
9 Physical and chemical properties: General Information	
Form: Colour: Smell:	Liquid Pale yellow Pungent
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 91°C (3mm Hg) Not determined
Flash point:	> 110°C
Ignition temperature: Decomposition temperature:	Not determined Not determined
Danger of explosion:	Product is not explosive.
Critical values for explosion: Lower: Upper:	Not determined Not determined
Steam pressure:	Not determined
Density at 20°C	1.333 g/cm ³
Solubility in / Miscibility with Water:	Reacts
10 Stability and reactivity	
Thermal decomposition / conditions to be avoided: Materials to be avoided:	No decomposition if used and stored according to specifications. Water/moisture
	Alcohols Amines Oxidizing agents Heat Bases
Dangerous reactions: Dangerous products of decomposition:	Isocyanates may react exothermically with NH, OH or SH groups Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Nitrogen oxides (NOx) Hydrogen cyanide (prussic acid)
11 Toxicological information	
Acute toxicity: Primary irritant effect:	
on the skin: on the eye:	Corrosive effect on skin and mucous membranes. Strong corrosive effect.
Sensitization:	Lachrymatory effect. Sensitization possible by inhalation.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA
Sensitisation	or ACGIH. May cause sensitisation by inhalation.
	GB- (Contd. on page 3

(Contd. on page 3)

Trade name 3-Isocyanatobenzoyl chloride (Contd. of page 2) 12 Ecological information: Additional ecological information: General notes: 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. Do not allow material to be released to the environment without proper governmental permits. 13 Disposal considerations Product: 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. Recommendation Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. 14 Transport information Land transport ADR/RID and GGVS/GGVE (cross-border/domestic) ADR/RID-GGVS/E Class: Kemler Number: 8 (CT1) Corrosive substances. 86 **UN-Number:** 2922 Packaging group: Label Ш ⁸+6.1 2922 CORROSIVE LIQUID, TOXIC, N.O.S. (3-isocyanatobenzoyl chloride) LQ22 Designation of goods: Limited quantities (LQ) Transport category 2 E Tunnel restriction code Maritime transport IMDG/GGVSea: IMDG/GGVSea Class: UN Number: 8 2922 Label Packaging group: Marine pollutant: 8+6.1 ш No Correct technical name: CORROSIVE LIQUID, TOXIC, N.O.S. (3-isocyanatobenzoyl chloride) Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class: UN/ID Number: 8 2922 Label 8+6.1 Packaging group: Correct technical name: II CORROSIVE LIQUID, TOXIC, N.O.S. (3-isocyanatobenzoyl chloride) UN "Model Regulation": UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., 8 (6.1), II 15 Regulatory information Designation according to EC guidelines: Code letter and hazard designation of product: C Corrosive 20/22 Harmful by inhalation and if swallowed. Causes burns. May cause sensitisation by inhalation. **Risk phrases:** May cause sensitisation by inhalation. Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Safety phrases: possible). National regulations For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed. Information about limitation of use: Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. 16 Other information: 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 data specification sheet: Health, Safety and Environmental Department. Health, Safety and Environmental Department. Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Martitime Code for Dangerous Goods IATA: International Air Transport Association IATA: International Air Transport Association IATA: PDGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) Contact: Abbreviations and acronyms: