1 Identification of substance	
Product details	
Trade name	2-Fluoro-4-methylbenzoyl chloride
Stock number:	H31292
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthey.com D-76185 Karlsruhe / Germany 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 GHS label elements	R 34 Causes burns.
	Danger
Descrations	H314 - Causes severe skin burns and eye damage.
Prevention: Response:	P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Ringe cautiously with water for several minutes. Remove contact lenses, if present
	P309 IF exposed or if you feel unwell:
	P310 Immediately call a POISON CENTER or doctor/physician.
3 Composition/information on ingredient	s
Chemical characterization:	2 Elucro 1 methylbonzovi chlorida (CAS# 50180.08.0)
Designation: (CAS#)	2-Fluoro-4-methylbenzoyl chloride (CAS# 59189-98-9)
4 First aid measures	
General information After inhalation	Instantly remove any clothing soiled by the product. 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.
After eye contact	Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing	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)
Protective equipment:	Hydrogen fluoride (HF) 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. Use neutralizing agent.
	Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.
Additional information:	See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.
	See section 8 for information on personal protection equipment. See Section 13 for information on disposal.
7 Handling and storage	
Handling	Handle under dry protective gas
Information for safe handling:	Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.
	Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace.
Information about protection against explosions and fires:	Keep ignition sources away - Do not smoke.
Storage	
Requirements to be met by storerooms and containers:	No special requirements.
Information about storage in one common storage facility:	Store away from water.
	Store away from oxidizing agents. Store away from strong bases.
Further information about storage conditions:	Store under dry inert gas
	This product is moisture sensitive. Keep container tightly sealed.
	Store in cool, dry conditions in well sealed containers.
	Protect from humidity and keep away from water. Store in a locked cabinet or with access restricted to technical experts or their assistants.
·	GB

Trade name 2-Fluoro-4-methylbenzoyl chloride

	(Contd. of page 1)
8 Exposure controls and personal protect	stion
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of a least 100 feet per minute.
Components with critical values that require monitoring at the workplace: Additional information:	•
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.
Breathing equipment: Protection of hands: Material of gloves	Avoid contact with the eyes and skin. 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
Penetration time of glove material Eye protection:	Not determiñed Safety glasses Tightly sealed safety glasses. Face protection Full face protection
Body protection:	Protectivé work clothing.
9 Physical and chemical properties: General Information	
Form: Colour: Smell:	Solid. Whitish Pungent
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	43-47°C Not determined Not determined
Flash point:	Not applicable
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion: Critical values for explosion:	Product is not explosive.
Lower: Upper:	Not determined Not determined
Steam pressure:	Not determined
Density Solubility in / Miscibility with	Not determined
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 Oxidizing agents
Dangerous reactions: Dangerous products of decomposition:	Bases No dangerous reactions known Carbon monoxide and carbon dioxide Hydrogen chloride (HCI) Hydrogen fluoride
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: Additional toxicological information:	No sensitizing effect known. 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 or ACGIH.
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: 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.
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Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 11.08.2010	Revision. 11.06.201
Trade name 2-Fluoro-4-methylbenzoy	I chloride
`	(Contd. of page 2
Uncleaned packagings: Recommendation:	
Recommendation:	Disposal must be made according to official regulations.
4 Transport information	
Land transport ADR/RID and GGVS/GGV	E (cross-border/domestic)
(A)	
ADR/RID-GGVS/E Class: Kemler Number:	8 (C4) Corrosive substances. 80
UN-Number: Packaging group:	3261 U
Label	". 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (2-Fluoro-4-methylbenzoyl chloride)
Designation of goods: Limited quantities (LQ) Transport category	LQ23
Transport category Tunnel restriction code	2 E
Maritime transport IMDG/GGVSea:	
<u>A</u>	
\checkmark	
IMDG/GGVSea Class: UN Number:	8 3261
Label	8
Packaging group: EMS Number:	ll F-A,S-B
Marine pollutant: Segregation groups	No Acids
Correct technical name:	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (2-Fluoro-4-methylbenzoyl chloride)
Air transport ICAO-TI and IATA-DGR:	
(the sector of	
ICAO/IATA Class:	8
UN/ID Number: Label	3261 8
Packaging group: Correct technical name:	II CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (2-Fluoro-4-methylbenzoyl chloride)
UN "Model Regulation":	
	UN3261, CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S., 8, II
15 Regulatory information	
Designation according to EC guidelines:	
Code letter and hazard designation of product:	5
-	C Corrosive
Risk phrases:	34 Causes burns.
Safety phrases:	26 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)
National regulations	
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.
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 of the product not in
	ct the health and safety of employees. This information is furnished without warranty, and any use of the product not in Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing data specification sl Contact:	heet: Health, Safety and Environmental Department. Zachariah Holt
Abbreviations and acronyms:	
	Transport of Dangerous Goods by Rail) Imagerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
	ADR: Accord europeen 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 Rait) IMDG: International Air Transport Association IATA-IDGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) 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)
	CAS: Chemical Abstracts Service (division of the American Chemical Society)