Product details

Stock number:

Manufacturer/Supplier:

Informing department: Emergency information:

2 Hazards identification Hazard designation:

Information pertaining to particular dangers for man and environment GHS label elements

3 Composition/information on ingredients

Trade name

Prevention: Response:

Storage: Disposal:

1 Identification of substance

Safaty Data Shaat	Page 1/3
Safety Data Sheet according to 1907/2006/EC, Article 31	
	Revision: 21.09.2010
2 Fluench and and able wide	
<u>3-Fluorobenzenesulfonyl chloride</u> A13140, L19891	
Alfa Aesar GmbH & Co.KG	
Benzstrasse 3 D-76185 Karlsruhe / Germany	E-mail: gcat@matthey.com www.alfa-chemcat.com
Product safety department.	
Giftnotruf Universität Mainz / Poison Information Center Mainz www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
C Corrosive	
R 34 Causes burns.	
Danger	
H314 - Causes severe skin burns and eye damage.	
P260 Do not breathe dust/fume/gas/mist/vapours/sprav.	a
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomitin P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all with water/shower.	contaminated clothing. Rinse skin
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several min present and easy to do. Continue rinsing.	nutes. Remove contact lenses, if
P405 Store locked up.	anal/international regulations
P501 Dispose of contents/container in accordance with local/regional/natio	
ts	
3-Fluorobenzenesulfonyl chloride (CAS# 701-27-9)	
Instantly remove any clothing soiled by the product.	
Supply fresh air. If required, provide artificial respiration. Keep patient warr persist.	n. Consult doctor if symptoms
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 c	loctor
Seek immediate medical advice.	
CO2, sand, extinguishing powder. Do not use water.	
Water.	
Can be released in case of fire:	
Carbon monoxide and carbon dioxide Hydrogen fluoride (HF)	

Allel	24111	COMACI	

4 First aid measures General information After inhalation

Chemical characterization: Designation: (CAS#)

4 FII St alu Illeasules	
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 After swallowing	Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult doctor. 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 fluoride (HF) Sulphur oxides (SOx)
Protective equipment:	Hydrogen chloride (HCl) 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:	Dispose of contaminated material as waste according to item 13. 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. 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.

Trade name 3-Fluorobenzenesulfonyl chloride

8 Exposure controls and personal protection

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8 Exposure controls and personal protec	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:	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	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.
Penetration time of glove material Eye protection:	Impervious gloves Not determined Safety glasses Tightly sealed safety glasses. Face protection
Body protection:	Full face protection Protective work clothing.
9 Physical and chemical properties:	
General Information	
Form: Colour: Smell:	Liquid Colourless Not determined
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	7°C 231-232°C Not determined
Ignition temperature:	Not determined
Decomposition temperature:	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	1.463 g/cm ³
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 Bases
Dangerous reactions: Dangerous products of decomposition:	No dangerous reactions known Carbon monoxide and carbon dioxide Hydrogen fluoride Sulphur oxides (SOx) Hydrogen chloride (HCI)
11 Toxicological information Acute toxicity:	
Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	Corrosive effect on skin and mucous membranes. Strong corrosive effect. 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.

Trade name 3-Fluorobenzenesulfonyl chloride

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	(Contd. of page 2)	
14 Transport information		
Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)	
ADR/RID-GGVS/E Class: Kemler Number: UN-Number: Packaging group: Label Designation of goods: Limited quantities (LQ) Transport category	8 (C3) Corrosive substances. 80 3265 II 8 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (3-Fluorobenzenesulfonyl chloride) LQ22 2 E	
Tunnel restriction code		
Maritime transport IMDG/GGVSea:		
IMDG/GGVSea Class: UN Number: Label Packaging group: Marine pollutant: Segregation groups Correct technical name:	8 3265 8 II No Acids CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (3-Fluorobenzenesulfonyl chloride)	
Air transport ICAO-TI and IATA-DGR:		
ICAO/IATA Class: UN/ID Number: Label	8 3265 8	
Packaging group: Correct technical name:	Î CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (3-Fluorobenzenesulfonyl chloride)	
UN "Model Regulation":	UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II	
15 Regulatory information		
Designation according to EC guidelines:		
Code letter and hazard designation of product:	C Corrosive	
Risk phrases:	34 Causes burns.	
Safety phrases:	 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	- A state of the state of th	
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 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.		
Contact:	et: Health, Safety and Environmental Department. Zachariah Holt	
Abbreviations and acronyms:	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous 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) ICAO: International Civil Aviation Organization ICAO: Tt: Technical Instructions by the "International Civil Aviation Organization" (ICAO)	

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)

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