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	Safaty Data Shoot	Page 1/3
	Safety Data Sheet according to 1907/2006/EC, Article 31	
Printing date 11.08.2010		Revision: 11.08.2010
1 Identification of substance		· · · · · · · · · · · · · · · · · · ·
Product details	1-Fluoro-3-iodo-5-nitrobenzene	· · · · · · · · · · · · · · · · · · ·
Trade name Stock number:	<u>1-Fildoro-3-iodo-3-introbenzene</u> H31612	· · · · · · · · · · · · · · · · · · ·
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:		
-	Xi Irritant	
Information pertaining to particular dangers for man and environment	R 36/37/38 Irritating to eyes, respiratory system and skin.	
GHS label elements	Warning	
	H315 - Causes skin irritation.	
	H319 - Causes serious eve irritation.	
Prevention:	H335 - May cause respirátory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P302+P352 IF ON SKIN: Wash with plenty of soap and water.	
Response:	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes and easy to do. Continue rinsing.	s. Remove contact lenses, if present
	P321 Specific treatment (see on this label).	
Storage: Disposal:	P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/i	/international regulations.
3 Composition/information on ingredients		
Chemical characterization:	\$	· · · · · · · · · · · · · · · · · · ·
Designation: (CAS#)	1-Fluoro-3-iodo-5-nitrobenzene (CAS# 3819-88-3)	
4 First aid measures		
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Co Seek immediate medical advice.	consult doctor if symptoms persist.
After skin contact	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 docto Seek immediate medical advice.	or.
<u>,</u>		
5 Fire fighting measures Suitable extinguishing agents	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcoh	hal resistant foam
Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases:		101-1851514111 10411.
products of combustion of nue gases.	Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOX)	
	Nitrogen oxides (NOx) Hydrogen iodide (HJ) Hydrogen fluorial (HE)	
L	Hydroğen fluoride (HF) Possibly Hydrogen cyanide (HCN) Wear şelf-contained breathing apparatus.	
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.	
6 Accidental release measures		
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away.	
Measures for environmental protection:	Ensure adequate ventilation Do not allow material to be released to the environment without proper governr	imental permits.
Measures for cleaning/collecting: Additional information:	Ensure adequate ventilation. 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	··· ··· ··· · · · ·	
Information for safe handling:	Keep containers tightly sealed. Store in cool, dry place in tightly closed containers.	
Information about protection against	Ensure good ventilation/exhaustion at the workplace.	
explosions and fires:	Keep ignition sources away - Do not smoke.	
Storage Requirements to be met by storerooms and		
containers: Information about storage in one common	No special requirements.	
storage facility:	Store in the dark. Store away from oxidizing agents.	
Further information about storage conditions:	Keep container tightly sealed.	
I Contraction of the second	Store in cool, dry conditions in well sealed containers. Protect from the effects of light.	
8 Exposure controls and personal protect	tion	i
O Exposure controle and personal prese		

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. (Contd. on page 2) Printing date 11.08.2010

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Trade name 1-Fluoro-3-iodo-5-nitrobenzene		
Components with critical values that require monitoring at the workplace: Additional information:	(Contd. of page 1) Not required.	
Developed anotestive equipment	No data 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 bands during breaks and at the end of the work	
Breathing equipment: Protection of hands: Material of gloves	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. 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 determined Safety glasses Face protection	
Body protection:	Protective work clothing.	
9 Physical and chemical properties:		
General Information		
Form: Smell:	Solid. Not determined	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	77-79°C Not determined Not determined	
Ignition temperature:	Not determined	
Decomposition temperature: Danger of explosion:	Not determined Product is not explosive.	
Critical values for explosion: Lower: Upper:	Not determined Not determined	
Steam pressure:	Not determined	
Density	Not determined	
10 Stability and reactivity Thermal decomposition / conditions to be avoided: Materials to be avoided: Dangerous reactions: Dangerous products of decomposition:	No decomposition if used and stored according to specifications. Light Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen iodide (HI) Hydrogen fluoride Possibly Hydrogen cyanide (HCN)	
11 Toxicological information Acute toxicity: Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information:	Irritant for skin and mucous membranes. Irritant effect. No sensitizing effect known. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 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.	
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.	
14 Transport information		
Land transport ADR/RID and GGVS/GGVE (cr ADR/RID-GGVS/E Class:	ross-border/domestic) None	
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class: Marine pollutant:	None No	
	(Contd. on page 3) GB	

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Trade name 1-Fluoro-3-iodo-5-nitrobei	nzene	
	(Contd. of page	
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	None	
Transport/Additional information:	Not dangerous according to the above specifications.	
15 Regulatory information		
Designation according to EC guidelines:		
Code letter and hazard designation of product:	Xi Irritant	
Risk phrases:	36/37/38 Irritating to eyes, respiratory system and skin.	
Safety phrases:	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 37 Wear suitable gloves.	
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.	
<b>16 Other information:</b> Employers should use this information only a information to ensure proper use and protec conformance with this Material Safety Data	as a supplement to other information gathered by them, and should make independent judgement of suitability of this 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 sh Contact: Abbreviations and acronyms:	eet: 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: 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-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)	