Printing date 16.07.2010	Revision: 16.07.2010
1 Identification of substance	
Product details	
Trade name	4-Fluoro-3-nitroaniline
Stock number:	A15371, L04903
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:	Xn Harmful
Information pertaining to particular dangers	
Information pertaining to particular dangers for man and environment	R 22 Harmful if swallowed.
GHS label elements	R 36/37/38 Irritating to eyes, respiratory system and skin.
	Warning
	H302 - Harmful if swallowed. H315 - Causes skin irritation.
	H319 - Causes SMITHINGTON. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P3054P352 IF ON SKIN: Wash with plenty of soap and water. P3054P3514P338 IF IN EVES: Prise cautiously with water for several minutes. Remove contact lenses if present
Prevention:	H335 - May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
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. Remove contact lenses, if present
	and easy to do. Continue rinsing.
Storage:	P321 Specific treatment (see on this label). P405 Store locked up.
Disposal:	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
3 Composition/information on ingredients	s
Chemical characterization:	
Designation: (CAS#)	4-Fluoro-3-nitroaniline (CAS# 364-76-1): 100%
Identification numbér(s): EINECS Number:	206-665-5
4 First aid measures	
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
	Seek immediate medical advice.
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 doctor. Seek immediate medical advice.
5 Fire fighting measures	
Suitable extinguishing agents Special hazards caused by the material, its	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire:
	Carbon monoxide and carbon dioxide
l de la companya de l	Nitrogen oxides (NOx) Hydrogen fluoride (HF)
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
Measures for cleaning/collecting:	Do not allow material to be released to the environment without proper governmental permits. Dispose of contaminated material as waste according to item 13.
Additional information:	Ensure adequate ventilation. See Section 7 for information on safe handling
l	See section 8 for information on personal protection equipment. See Section 13 for information on disposal.
7 Handling and stayons	
7 Handling and storage	
Handling Information for safe handling:	Keep containers tightly sealed.
l	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: Storage	Keep ignition sources away - Do not smoke.
Requirements to be met by storerooms and	
containers: Information about storage in one common	No special requirements.
storage facility: Further information about storage	Store away from oxidizing agents.
conditions:	Keep container tightly sealed.
<u></u>	Store in cool, dry conditions in well sealed containers.
8 Exposure controls and personal protect	tion
Additional information about design of	Descriptions and provide the second for parameters appricately and having an everage face value is of at
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.
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Breathing equipment: Protection of hands: Material of gloves Eye protection: Body protection:	(Contd. of page 1) 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. Safety glasses Face protection Protective work clothing.
0 Physical and chamical properties:	
9 Physical and chemical properties: General Information	
Form:	Powder
Colour:	Yellow Gold coloured
Smell:	Not determined
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	96-98°C Not determined Not determined
Flash point:	91°C
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion: Critical values for explosion:	Product is not explosive.
Lower:	Not determined
Upper:	Not determined
Steam pressure:	Not determined
Density	Not determined
10 Stability and reactivity Thermal decomposition / conditions to be avoided: Materials to be avoided:	No decomposition if used and stored according to specifications. Oxidizing agents
Dangerous reactions: Dangerous products of decomposition:	No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen fluoride
11 Toxicological information Acute toxicity:	
LD/LC50 values that are relevant for classified	cation:
Oral LD50 1100 mg/kg (rat) Dermal LD50 >10 gm/kg (rabbit) Inhalative LC50/1H >200000 mg/m3/1H (rat)	
Primary irritant effect:	
on the skin: on the eye:	Irritant for skin and mucous membranes. Irritant 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. 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	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.
14 Transport information	
Land transport ADR/RID and GGVS/GGVE (c ADR/RID-GGVS/E Class:	ross-border/domestic) None
UN-Number: Label	6.1
Designation of goods: Limited quantities (LQ)	LQ9
Transport category	LQ9 2 E
Tunnel restriction code	E
Maritime transport IMDG/GGVSea: IMDG/GGVSea Class: Marine pollutant:	None No
Air transport ICAO-TI and IATA-DGR: ICAO/IATA Class:	None
Transport/Additional information:	Not dangerous according to the above specifications.
	GB –

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5 Regulatory information	
Designation according to EC guidelines:	
Code letter and hazard designation of product:	Xn Harmful
····· P······	22 Harmful if swallowed. 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. 36/37 Wear suitable protective clothing and gloves.
National regulations	
Information about limitation of use:	Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals.
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
6 Other information: Employers should use this information only as a su information to ensure proper use and protect the he conformance with this Material Safety Data Sheet,	upplement to other information gathered by them, and should make independent judgement of suitability of this ealth and safety of employees. This information is furnished without warranty, and any use of the product not in or in combination with any other product or process, is the responsibility of the user.
Department issuing data specification sheet: Contact: Abbreviations and acronyms:	