J					
SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1 Product identifier	2 Eluara 2 (trifluaramathy))banzanitrila				
	<b>2-Fluoro-3-(trifluoromethyl)benzonitrile</b> A18517, L10545				
CAS Number: 1.2 Relevant identified uses of the substance	146070-35-1 or mixture and uses advised against.				
	.2 Relevant identified uses of the substance or mixture and uses advised against. dentified use: SU24 Scientific research and development				
1.3 Details of the supplier of the safety data s Manufacturer/Supplier:	neet Alfa Aesar GmbH & Co.KG				
	Alfa Aesar GmbH & Co.KG A Johnson Matthey Company Zeppelinstr. 7b				
	Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com				
	Fax: +49 (0) 721 84007 300				
	www.alfa.com				
orming department: Emergency telephone number:	Product safety Tel + +049 (0) 7275 988687-0 Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number) Poison Information Center Mainz				
	Poison Information Cénter Mainz www.giftinfo.uni-mainz.de Telephone: +49(0)6131/19240				
SECTION 2: Hazards identification 2.1 Classification of the substance or mixture					
Classification according to Regulation (EC) N					
GHS07					
Acute Tox. 4 H302 Harmful if swallowed.					
Acute Tox. 4 H312 Harmful in contact with skin					
Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.					
Eye Irrit. 2 H319 Causes serious eye irritation.	n.				
 STOT SE 3 H335 May cause respiratory irritat	tion.				
Classification according to Directive 67/548/E	EC or Directive 1999/45/EC				
R20/21/22: Harmful by inhalation, in contact w	vith skin and if swallowed.				
Xi; Irritant					
R36/37/38: Irritating to eyes, respiratory syste	m and skin.				
for human and environment:	Not applicable				
Other hazards that do not result in classification	No information known.				
 2.2 Label elements					
Labelling according to Regulation (EC) No 1272/2008	The substance is classified and labelled according to the CLP regulation.				
Hazard pictograms Signal word	GHS07 Warning				
Hazard statements	H302 Harmful if swallowed				
	H312 Harmful in contact with skin. H332 Harmful if inhaled.				
	H315 Causes skin irritation. H319 Causes serious eye irritation.				
Precautionary statements	H335 May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.				
Trecautionary statements	P305+P351+P338 IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses, if				
	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P321 Specific treatment (see on this label).				
	P405 Store locked up.				
	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.				
2.3 Other hazards Results of PBT and vPvB assessment	, and the second se				
PBT:	Not applicable. Not applicable.				
SECTION 3: Composition/information of 3.1 Substances	n ingreaients				
CAS# Designation:	146070-35-1 2-Fluoro-3-(trifluoromethyl)benzonitrile				
SECTION 4: First aid measures					
4.1 Description of first aid measures					
After inhalation	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 medical treatment.				
4.2 Most important symptoms and effects, both acute and delayed	No further relevant information available.				
4.3 Indication of any immediate medical attention and special treatment needed	No further relevant information available.				
SECTION 5: Firefighting measures					
5.1 Extinguishing media Suitable extinguishing agents 5.2 Special hazards arising from the	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.				
substance or mixture	If this product is involved in a fire, the following can be released:				
	Carbon monoxide and carbon dióxide Nitrogen oxides (NOX)				
	Hydrogen fluoride (HF) Hydrogen cyanide (HCN)				
	(Contd. on page 2) DE/E				

	according to 1907/2006/EC, Article 31	
Printing date 01.07.2013		Revision: 03.07.2006
Trade name <b>2-Fluoro-3-(trifluoromethyl)b</b>	enzonitrile	
E 2 Advise for fireficktore		(Contd. of page 1
5.3 Advice for firefighters Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.	
SECTION 6: Accidental release measure	es	
6.1 Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away.	
6.2 Environmental precautions:	Ensure adequate ventilation Do not allow material to be released to the environment without proper governmental perr Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil.	nits.
6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawd Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.	ust).
Prevention of secondary hazards: 6.4 Reference to other sections	No special measures required. See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.	
SECTION 7: Handling and storage		
7.1 Precautions for safe handling	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:	No information known.	
7.2 Conditions for safe storage, including an		
Storage 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.	
7.3 Specific end use(s)	Store in cool, dry conditions in well sealed containers. No further relevant information available.	
SECTION 8: Exposure controls/persona	al protection	
Additional information about design of		
technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and having an of at least 100 feet per minute.	average face velocit
8.1 Control parameters Components with critical values that require monitoring at the workplace: Additional information:		
8.2 Exposure controls 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:	Maintain an ergonomically appropriate working environment. 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 furt and varies from manufacturer to manufacturer.	her marks of quality
Material of gloves Penetration time of glove material Eye protection:	Impervious gloves Not determined Safety glasses Face protection	
Body protection:	Protective work clothing.	
SECTION 9: Physical and chemical prop	perties	
9.1 Information on basic physical and chemic General Information Appearance:		
Form: Colour:	Liquid Colourless	
Smell: Odour threshold:	Not determined Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined	
Flash point:	Not determined	
Inflammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not determined Not determined Not determined	
Self-inflammability:	Not determined.	
Danger of explosion: Critical values for explosion:	Product is not explosive.	
Lower: Upper:	Not determined Not determined	
Steam pressure: Density	Not determined Not determined	
Relative density	Not determined.	
Vapour density Evaporation rate	Not determined. Not determined.	
		(Contd. on page 3
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Trade name 2-Fluoro-3-(trifluoromethyl)benzonitrile

Page 3/4

Revision: 03.07.2006

Trade name 2-Fluoro-3-(trifluoromethyl)b	enzonitriie
Solubility in / Missibility with	(Contd. of page 2)
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity:	Not determined Not determined.
dynamic: kinematic: 9.2 Other information	Not determined. Not determined. No further relevant information available.
SECTION 10: Stability and reactivity	
10.1 Reactivity	No information known.
10.2 Chemical stability Thermal decomposition / conditions to be	Stable under recommended storage conditions.
avoided: 10.3 Possibility of hazardous reactions 10.5 Incompatible materials:	No decomposition if used and stored according to specifications. No dangerous reactions known Oxidizing agents
10.6 Hazardous decomposition products:	Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen fluoride
	Hýdrogen cyanide (prussic acid)
SECTION 11: Toxicological information 11.1 Information on toxicological effects	
Acute toxicity:	Harmful if inhaled. Harmful in contact with skin.
	Harmful if swallowed. Danger by skin resorption.
LD/LC50 values that are relevant for classification:	No data
Skin irritation or corrosion: Eye irritation or corrosion: Sensitization:	Causes skin irritation. Causes serious eye irritation. No sensitizing effect known.
Germ cell mutagenicity: Carcinogenicity:	No effects known. No effects known. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA
Reproductive toxicity:	No effects known.
Specific target organ system toxicity - repeated exposure:	No effects known.
Specific target organ system toxicity - single exposure: Aspiration hazard:	May cause respiratory irritation. No effects known.
Additional toxicological information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
SECTION 12: Ecological information	
12.1 Toxicity Aquatic toxicity: 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil Additional ecological information: General notes:	No further relevant information available. No further relevant information available.
	No further relevant information available. No further relevant information available.
	Do not allow material to be released to the environment without proper governmental permits. 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. Avoid transfer into the environment.
12.5 Results of PBT and vPvB assessment PBT:	Not applicable.
vPvB: 12.6 Other adverse effects	Not applicable. No further relevant information available.
SECTION 13: Disposal considerations	
13.1 Waste treatment methods Recommendation	Hand over to disposers of hazardous waste.
Uncleaned packagings:	Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.
Recommendation:	Disposal must be made according to official regulations.
SECTION 14: Transport information	
UN-Number ADR, IMDG, IATA	UN3276
14.2 UN proper shipping name ADR	3276 NITRILES, TOXIC, LIQUID, N.O.S. (2-Fluoro-3-(trifluoromethyl) benzonitrile)
IMDG, IATA	NITRILES, TOXIC, LIQUID, N.O.S. (2-Fluoro-3-(trifluoromethyl)benzonitrile)
14.3 Transport hazard class(es) ADR	
$\langle $	
Class Label IMDG, IATA	6.1 (T1) Toxic substances. 6.1
Class Label	6.1 Toxic substances. 6.1
Packing group ADR, IMDG, IATA	III
	(Contd. on page 4) DE/E

Revision: 03.07.2006

Trade name 2-Fluoro-3-(trifluoromethyl)benzonitrile	

	(Contd. of page 3)
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Kemler Number:	Warning: Toxic substances. 60
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR Excepted quantities (EQ): Limited quantities (LQ) Transport category Tunnel restriction code	E1 5L 2 E
UN "Model Regulation":	UN3276, NITRILES, TOXIC, LIQUID, N.O.S. (2-Fluoro-3-(trifluoromethyl) benzonitrile), 6.1, III

SECTION 15: Regulatory information	
15.1 Safety, health and environmental regula	tions/legislation specific for the substance or mixture
Australian Inventory of Chemical Substances Standard for the Uniform Scheduling of	Substance is not listed.
Drugs and Poisons National regulations	Substance is not listed.
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.
Water hazard class: Other regulations, limitations and prohibitive ELINCS (European List of Notified Chemical	Water hazard class 1 (Self-assessment): slightly hazardous for water. a regulations
Substances) Substances of very high concern (SVHC)	Substance is not listed.
according to REACH, Article 57 REACH - Pre-registered substances 15.2 Chemical safety assessment:	Substance is not listed. Substance is not listed. A Chemical Safety Assessment has not been carried out.
SECTION 16: Other information	

Section 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. Abbreviations and acronyms: Abbreviation

DE/E