

	Revision: 13.01.2016
SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier	
Trade name N,N-Dimethylaniline	
Stock number: A11916 CAS Number:	
121-69-7 EC number: 204-493-5	
Index number: 612-016-00-0	
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against.</b> <b>Identified use:</b> SU24 Scientific research and development	
1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Thermo Fisher (Kandel) GmbH Zeppelinstr. 7b	
Zeppelinstr. 7b 76185 Karlsruhe / Germany	
76185 Karlsruhe / Germany Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300 Email: tech@alfa.com	
Email: tech@aira.com www.alfa.com Informing department: Product safety Tel + +049 (0) 7275 988687-0	
1.4 Emergency telephone number: Carechem 24: +44 (o) 1235 239 670 (Multi-language emergency number) Poison Information Center Mainz	
Poison Information Center 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) No 1272/2008	
GHS06 skull and crossbones	
Acute Tox. 3     H301     Toxic if swallowed.       Acute Tox. 3     H311     Toxic in contact with skin.	
Acute Tox. 3 H331 Toxic if inhaled.	
GHS08 health hazard	
Carc. 2 H351 Suspected of causing cancer.	
GHS09 environment	
 Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. 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	
GHS06 GHS08 GHS09	
Signal word Danger Hazard statements	
H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled.	
H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P281 Use personal protective equipment as required. P361 Remove/Take off immediately all contaminated clothing.	
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 PBT: Not applicable.	
vPvB: Not applicable.	
SECTION 3: Composition/information on ingredients 3.1 Substances	
CAS# Designation: 121-69-7 N,N-Dimethylaniline	
Identification number(s): EC number: 204-493-5 Index number: 612-016-00-0	
SECTION 4: First aid measures	
4.1 Description of first aid measures	
General information Instantly remove any clothing soiled by the product. Remove breathing apparatus only after soiled clothing has been completely removed.	
In case of irregular breathing or respiratory arrest provide artificial respiration. After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm, Consult doctor if symptoms persist.	

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.

	Re	əvision: 13.01.2016
Trade name <b>N,N-D</b>	imethylaniline	
After eye contac After swallowing	h water and soap and rinse thoroughly.	(Contd. of page 1)
5.1 Extinguishing Suitable extingu 5.2 Special haza If this product is ir Carbon monoxide Nitrogen oxides (I 5.3 Advice for fir Protective equip	Shing agents CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. ds arising from the substance or mixture wolved in a fire, the following can be released: and carbon dioxide NOx) efighters ment: ed breathing apparatus.	
6.1 Personal pre Wear protective e Ensure adequate 6.2 Environment 6.3 Methods and Absorb with liquid Dispose of contar Ensure adequate Prevention of se 6.4 Reference to See Section 7 for See section 8 for	al precautions: Do not allow product to reach sewage system or water bodies. material for containment and cleaning up: -binding material (sand, diatomite, acid binders, universal binders, sawdust). ninated material as waste according to section 13. ventilation. condary hazards: Keep away from ignition sources.	
7.1 Precautions to Keep containers to Store in cool, dry Ensure good vent Open and handle Information about 7.2 Conditions for Storage Requirements to Information about Do not store toge Store away from a Store away from a	place in tightly closed containers. ilation/exhaustion at the workplace. container with care. <b>It protection against explosions and fires:</b> Keep ignition sources away - Do not smoke. <b>If storage, including any incompatibilities</b> <b>be met by storerooms and containers:</b> No special requirements. <b>It storage in one common storage facility:</b> her with acids. widising agents. acid chlorides. acid anhydrides.	
Additional inform Properly operating 8.1 Control para Components wit 121-69-7 N,N-Din	h critical values that require monitoring at the workplace: nethylaniline (100.0%)	÷.
PEL (USA) REL (USA)	Long-term value: 25 mg/m³, 5 ppm 2(II);DFG, H Long-term value: 25 mg/m³, 5 ppm Skin Short-term value: 50 mg/m³, 10 ppm	
TLV (USA)	Short-term value: 50 mg/m <sup>3</sup> , 10 ppm Long-term value: 25 mg/m <sup>3</sup> , 5 ppm Skin Short-term value: 50 mg/m <sup>3</sup> , 10 ppm Long-term value: 25 mg/m <sup>3</sup> , 5 ppm Skin; BEI-M	
Ingredients with 121-69-7 N,N-Din BEI (USA) 1,5 % Mediu Time:	biological limit values: nethylaniline (100,0%) of hemoglobin m: blood during or end of shift neter: Methemoglobin (background, nonspecific, semi-quantitative)	
8.2 Exposure co Personal protect General protect The usual precau Keep away from f Instantly remove a Wash hands duri Store protective c		(Contd. on page 3)
L		DE DE

rade name <i>N,N-Dimethylaniline</i>					
Decomposed of filter device for about	(Contd. of page 2)				
Recommended filter device for short Use a respirator with multi-purpose com	ibination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to				
determine if air-purifying respirators are or CEN (EU).	appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA)				
Protection of hands:	an for their proper condition				
The selection of the suitable gloves doe	se for their proper condition. Is not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.				
Material of gloves Butyl rubber, BR Penetration time of glove material (in	minutes) 480				
Glove thickness 0.3 mm Eve protection: Safety glasses					
Body protection: Protective work cloth	ing.				
SECTION 9: Physical and chemical properties					
9.1 Information on basic physical and chemical properties					
General Information Appearance:					
Form: Smell:	Liquid Fish-like				
Odour threshold:	Not determined.				
pH-value:	Not determined.				
Change in condition Melting point/Melting range:	2 °C				
Boiling point/Boiling range: Sublimation temperature / start:	193 °C Not determined				
Flash point:	62 °C				
Inflammability (solid, gaseous) Ignition temperature:	Not determined. 370 °C				
Decomposition temperature: Self-inflammability:	Not determined Not determined.				
Danger of explosion:	Not determined.				
Critical values for explosion: Lower:	1,2 Vol %				
Upper: Steam pressure at 20 °C:	7 Vol % 0.67 hPa				
Density at 20 °C	0,956 g/cm³				
Relative density Vapour density	Not determined. Not determined.				
Evaporation rate Solubility in / Miscibility with	Not determined.				
Water at 20 °C: Partition coefficient (n-octanol/water)	1 g/l In Not determined				
Viscosity:					
dynamic: kinematic:	Not determined. Not determined.				
9.2 Other information	No further relevant information available.				
SECTION 10: Stability and reactivity					
10.1 Reactivity No information known.					
Thermal decomposition / conditions	ecommended storage conditions. to <b>be avoided:</b> No decomposition if used and stored according to specifications.				
10.3 Possibility of hazardous reaction 10.4 Conditions to avoid No further rel	is Reacts with strong oxidising agents levant information available.				
10.5 Incompatible materials: Acids					
Oxidising agents Halogens					
Acid chlorides					
Acid anhydrides Chloroformates					
10.6 Hazardous decomposition produces Carbon monoxide and carbon dioxide	icts:				
Nitrogen oxides (NOx)					
SECTION 11: Toxicological infor	mation				
11.1 Information on toxicological effe	cts				
Acute toxicity: Toxic in contact with skin.					
Toxic if inhaled. Toxic if swallowed.					
Danger by skin resorption. The Registry of Toxic Effects of Chemic					
LD/LC50 values that are relevant for o	classification:				
Oral LD50 951 mg/kg (rat) Dermal LD50 1770 mg/kg (rabbit)					
Skin irritation or corrosion: May cause Eye irritation or corrosion: May cause	e irritation				
Sensitization: No sensitizing effect kno	wn.				
Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.					
IARC-3: Not classifiable as to carcinogenicity to humans. ACGIH A4: Not classifiable as a human carcinogen; Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals					
IARC-3: Not classifiable as to carcinogenicity to humans. ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carcinogenic and/or neoplastic data for this substance. Reproductive toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.					
Succinc laivel vivali system toxicity - repeated exposure. No chects known.					
Aspiration hazard: No effects known.	Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subastant to characterize transition of Tavia Effects of Charges (DTECS) contains multiple does tovisity data for this substance.				
Subacute to chronic toxicity: The Reg Additional toxicological information:	Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. 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				

SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity: No further relevant information available.

Trade name <i>N,N-Dimethylaniline</i>		
12.2 Persistence and degradability No further relevant information available. 12.3 Bioaccumulative potential No further relevant information available.	(Contd. of page 3)	
12.4 Mobility in soil No further relevant information available. Additional ecological information: General notes:		
Do not allow product to reach ground water, water bodies or sewage system. Water hazard class 2 (Assessment by list): hazardous for water.		
Do not allow product to reach ground water, water bodies or sewage system. Water hazard class 2 (Assessment by list): hazardous for water. Danger to drinking water if even small quantities leak into soil. Also poisonous for fish and plankton in water bodies. Toxic to aquatic life.		
I oxic to aquatic life. May cause long lasting harmful effects to aquatic life. Avoid transfer into the environment.		
<b>12.5 Results of PBT and vPvB assessment</b> <b>PBT:</b> Not applicable.		
vPvB: Not applicable. 12.6 Other adverse effects No further relevant information available.		
SECTION 13: Disposal considerations		
13.1 Waste treatment methods 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.		
SECTION 14: Transport information UN-Number	· · · · · · · · · · · · · · · · · · ·	
ADR, IMDG, IATA 14.2 UN proper shipping name	UN2253	
ADR IMDG, IATA	2253 N,N-DIMETHYLANILINE N,N-DIMETHYLANILINE	
14.3 Transport hazard class(es)		
ADR		
Class Label	6.1 (T1) Toxic substances. 6.1	
IMDG, IATA		
$\langle * \rangle$		
Class Label	6.1 Toxic substances. 6.1	
Packing group ADR, IMDG, IATA	П	
14.5 Environmental hazards:	Environmentally hazardous substance, liquid	
14.6 Special precautions for user Kemler Number: EMS Number:	Warning: Toxic substances. 60 F-A,S-A	
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	· · ·	
Transport/Additional information:		
ADR Excepted quantities (EQ):	E4 LQ17	
Limited quantities (LQ) Transport category	2	
UN "Model Regulation":	D/E UN2253, N,N-DIMETHYLANILINE, 6.1, II	
SECTION 15: Regulatory information		
15.1 Safety, health and environmental regulations/legislation specific for t Australian Inventory of Chemical Substances Substance is listed.	the substance or mixture	
Standard for the Uniform Scheduling of Medicines and Poisons Substance	e is not listed.	
National regulations Information about limitation of use: Employment restrictions concerning young persons must be observed		
Employment restrictions concerning young persons must be observed. For use only by technically qualified individuals. Classification according to VbF: A II		
Technical instructions (air): Class Share in %		
I 100,0		
Water hazard class: Water hazard class 2 (Assessment by list): hazardous for water. Other regulations, limitations and prohibitive regulations		
ELINCS (European List of Notified Chemical Substances) Substance is not listed. Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.		
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed.		
Annex XIV of the REACH Regulations (requiring Authorisation for use) Su 15.2 Chemical safety assessment: A Chemical Safety Assessment has not b	bstance is not listed. een carried out.	
SECTION 16: Other information		
Employers should use this information only as a supplement to other information the transmission of the supplement to ensure proper use and protect the health and safety of employers and protect the health	on gathered by them, and should make independent judgement of suitability of oyees. 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. (Contd. on page 5)	

## Trade name *N,N-Dimethylaniline*

Page 5/5 Printing date 14.01.2016 Revision: 13.01.2016

 Department issuing SDS: Global Marketing Department Abbreviations and acronyms:

 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods IMDG: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VbF: Verordung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria) LC50: Lethal concentration, 50 percent WPB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) LARC: International Apertor for Research on Cancer EPA: Environmental Protection Agency (USA) Carc. 2: Carcinogenicity, Hazard Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

(Contd. of page 4)

DF