Revision [.]	09	08	201

	according to 1907/2006/EC, Article 31		
Printing date 09.08.2010		Revision: 09.08.2010	
1 Identification of substance			
Product details			
Trade name	2,3-Dimethylpiperazine		
Stock number:	H26252		
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG	E mail: geat@matthoy.com	
	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		
t formation materials to particular departs			
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 eye irritation.		
	H335 - May cause respirátory irritation		
Prevention: Response:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P302+P352 IF ON SKIN: Wash with plenty of soap and water.		
Response.	P305+P351+P338 IF IN EYES. Rinse cautiously with water for several minutes	Remove contact lenses, if	
	P321 Specific treatment (see on this label).		
Storage:	P405 Store locked up.	to a stiened moulations	
Disposal:	P501 Dispose of contents/container in accordance with local/regional/national/in	ternational regulations.	
3 Composition/information on ingredients	S		
Chemical characterization:	0.0 Dire the driver in (0.4 CH 0.4 CO E2 0). 4000/		
Designation: (CAS#)	2,3-Dimethylpiperazine (CAS# 84468-52-0): 100%		
4 First aid measures			
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Con	nsult doctor if symptoms	
	persist. Seek immediate medical advice.		
After skin contact	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. Seek immediate medical advice.		
After swallowing	Seek immediaté medical advice.		
5 Fire fighting measures			
Suitable extinguishing agents	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcoho	ol-resistant foam.	
Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire:		
products of compustion of fide gases.	Carbon monoxide and carbon dioxide		
Protective equipment:	Nitrogen oxides (NOx) 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 Do not allow material to be released to the environment without proper governme	ontol normite	
Measures for environmental protection: Measures for cleaning/collecting:	Ensure adequate ventilation	ental permits.	
Additional information:	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:	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: Information about storage in one common	No special requirements.		
storage facility:	Store away from oxidizing agents.		
Further information about storage conditions:	Keep container tightly sealed.		
	Store in cool, dry conditions in well sealed containers.		
8 Exposure controls and personal protection			
Additional information about design of			
technical systems:	Properly operating chemical fume hood designed for hazardous chemicals and h	naving an average face velocity	
Commenter with critical values that require	of at least 100 feet per minute.		
Components with critical values that require monitoring at the workplace:	Not required.		
Additional information:	No data		
Personal protective equipment General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemic	ale	
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemica Keep away from foodstuffs, beverages and food.	als.	
	Instantiv remove any solled and imprednated darments		
	Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.		
Breathing equipment: Protection of hands:	Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition.		
		(Contd. on page 2)	
		65	

Printing date 09.08.2010	Revision: 09.08.2
Trade name 2,3-Dimethylpiperazine	
Material of gloves Penetration time of glove material Eye protection:	(Contd. of page The selection of the suitable gloves does not only depend on the material, but also on further marks of quali and varies from manufacturer to manufacturer. Impervious gloves Not determined Safety glasses Face protection
Body protection:	Protective work clothing.
9 Physical and chemical properties:	
General Information	
Form: Colour:	Solid. White Yellow
Smell:	Not determined
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	82-88°C Not determined Not determined
Flash point:	Not applicable
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	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. Oxidizing agents No dangerous reactions known Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)
11 Toxicological information Acute toxicity:	Nitrogen oxides (NOX)
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, OSI 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 syster 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.
Uncleaned packagings: Recommendation:	Must be specially treated under adherence to official regulations.
Recommendation:	Disposal must be made according to official regulations.
14 Transport information	
Land transport ADR/RID and GGVS/GGVE (ADR/RID-GGVS/E Class:	cross-border/domestic)
ADR/RID-GGVS/E Class: Maritime transport IMDG/GGVSea: IMDG/GGVSea Class:	None
Marine pollutant:	No
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: Safety phrases:	36/37/38 Irritating to eyes, respiratory system and skin. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Caroly pindood.	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.
	(Contd. on page

GB -

Trade name 2,3-Dimethylpiperazine

	(Contd. of page 2)
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
16 Other information: Employers should use this information this information to ensure proper use not in conformance with this Material	n only as a supplement to other information gathered by them, and should make independent judgement of suitability of and protect the health and safety of employees. This information is furnished without warranty, and any use of the product Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing data specificat Contact: Abbreviations and acronyms:	ion sheet: 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: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Air Transport Association IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Instructions by the "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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)