Safety Data Sheet according to 1907/2006/EC, Article 31			
Printing date 23.07.2010 Revision: 23.07.2010 Revision: 23.07.2010			
1 Identification of substance			
Product details			
Trade name	<u>4-Methyl-4-nonanol</u>		
Stock number: Manufacturer/Supplier:	B20690 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:	void		
Information pertaining to particular dangers for man and environment GHS label elements	Not applicable Void		
3 Composition/information on ingredients			
Chemical characterization:			
Designation: (CAS#)	4-Methyl-4-nonanol (CAS# 23418-38-4): 100%		
4 First aid measures		and the stars 'f an and the stars	
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Co persist.	onsult doctor if symptoms	
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	r.	
After swallowing	Seek medical treatment.		
5 Fire fighting measures	CO2 extinguishing pourder or water lot. Eight lorger fires with water let or cleable	al registant form	
Suitable extinguishing agents Special hazards caused by the material, its products of combustion or flue gases:	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcoho		
	Can be released in case of fire: Carbon monoxide and carbon dioxide Wear self-contained breathing apparatus.		
Protective equipment:	Wear full protective suit.		
6 Accidental release measures			
Person-related safety precautions:	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation		
Measures for environmental protection: Measures for cleaning/collecting:	Do not allow material to be released to the environment without proper governm Absorb with liquid-binding material (sand, diatomite, acid binders, universal bind See Section 7 for information on safe handling	nental 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.		
	Store in cool, dry place in tightly closed containers. No special precautions necessary if used correctly.		
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: Further information about storage conditions:	Store away from oxidizing agents.		
	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	having an avorage face value	
	of at least 100 feet per minute.	naving an average lace velocity	
Components with critical values that require monitoring at the workplace:	Not required.		
Additional information: Personal protective equipment	No data		
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemic Keep away from foodstuffs, beverages and food.	cals.	
	Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.		
Breathing equipment: Protection of hands:	Use breathing protection with high concentrations. Check protective gloves prior to each use for their proper condition.		
Material of gloves	The selection of the suitable gloves does not only depend on the material, but a and varies from manufacturer to manufacturer.	lso on further marks of quality	
Penetration time of glove material	Impervious gloves Not determined		
Eye protection: Body protection:	Safety glasses Protective work clothing.		
9 Physical and chemical properties:	~		
General Information			
Form: Smell:	Liquid Not determined		
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Trade name 4-Methyl-4-nonanol	
	(Contd. of page 1)
Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined
Sublimation temperature / start:	Not determined
Flash point:	Not determined
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion: Critical values for explosion:	Product is not explosive.
Lower:	Not determined Not determined
Steam pressure:	Not determined
Density	Not determined
10 Stability and reactivity	
Thermal decomposition / conditions to be	
avoided:	No decomposition if used and stored according to specifications.
Materials to be avoided: Dangerous reactions:	Oxidizing agents No dangerous reactions known
Dangerous products of decomposition:	Carbon monoxide and carbon dioxide
11 Toxicological information	
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Acute toxicity: Primary irritant effect:	
on the skin: on the eye:	May cause irritation May cause irritation
Sensitization:	No sensitizing effect known.
Additional toxicological information:	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
	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 (ADR/RID-GGVS/E Class:	r oss-border/domestic) None
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.
15 Regulatory information	
Designation according to EC guidelines:	Observe the normal safety regulations when handling chemicals
Designation according to EC guidennes.	The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous
Notional regulations	Materials (GefStoffV).
National regulations	For use only by technically qualified individuals
Information about limitation of use:	For use only by technically qualified individuals. Water hazard class 1 (Self-assessment): slightly hazardous for water.
Water hazard class:	יימנט וומבמיע טומטט ו נטטווימטטטטטוווין. אוייווין וומבמיעטעט וטו שמוטו.
this information to ensure proper use and prote	a supplement to other information gathered by them, and should make independent judgement of suitability of ct the health and safety of employees. This information is furnished without warranty, and any use of the product ta Sheet, or in combination with any other product or process, is the responsibility of the user.
	: Health, Safety and Environmental Department.
Contact:	Zachariah Holt
Abbreviations and acronyms:	Dangerous Goods by Road) RID: Redement 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)
	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 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: Trechnical 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) GB-
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