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Printing date 23.07.2010	Revision: 23.07.2010	
1 Identification of substance		
Product details		
Trade name	cis-4-Methylcyclohexanol	
Stock number:	B20792	
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:	void	
Information pertaining to particular dangers for man and environment	void	
GHS label elements	Void	
3 Composition/information on ingredients	S	
Chemical characterization:		
Designation: (CAS#) Identification number(s):	cis-4-Methylcyclohexanol (CAS# 7731-28-4): 100%	
EINECS Number:	231-789-1	
4 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.	
	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.	
products of combustion or flue gases:	Can be released in case of fire:	
Protective equipment:	Carbon monoxide and carbon dioxide 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:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13.	
	Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation.	
Additional information:	Ensure adequate ventilation. See Section 7 for information on safe handling See section 8 for information on personal protection equipment.	
	See Section 8 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:	No special requirements.	
Information about storage in one common storage facility:	Store away from oxidizing agents.	
Further information about storage conditions:	Keep container tightly sealed.	
conditions.	Store in cool, dry conditions in well sealed containers.	
9 Experience controls and personal protect	41an	
8 Exposure controls and personal protect Additional information about design of	นอก	
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:	Not required.	
Additional information:	No data	
Personal protective equipment General protective and hygienic measures	The vend proceptionary measures should be adhered to in bandling the chemicals	
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:	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 also on further marks of guality	
Eye protection:	and varies from manufacturer to manufacturer. Safety glasses	
Body protection:	Face protection Protective work clothing.	
Body protection.	GB	
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9 Physical and chemical properties:	
General Information	
Form: Colour:	Liquid Colourless
Smell:	Not determined
Change in condition	
Melting point/Melting range: Boiling point/Boiling range:	Not determined 172-173°C
Sublimation temperature / start:	Not determined
Flash point:	63°C
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Danger of explosion:	Product is not explosive.
Critical values for explosion: Lower:	Not determined
Upper:	Not determined
Steam pressure:	Not determined
Density at 20°C	0.91 g/cm ³
Solubility in / Miscibility with Water:	Slightly soluble
10 Stability and reactivity	
Thermal decomposition / conditions to be	
avoided: Materials to be avoided:	No decomposition if used and stored according to specifications. Acids
	Oxidizing agents Acid chlorides
Dangerous reactions:	No dangerous reactions known
Dangerous products of decomposition:	Carbon monoxide and carbon dioxide
11 Toxicological information	
Acute toxicity:	
Primary irritant effect: on the skin:	May cause irritation
on the eye:	May cause irritation
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.
· · · · · · · · · · · · · · · · · · ·	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.
General notes.	Do not allow material to be released to the environment without proper governmental permits.
	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	
ADR/RID-GGVS/E Class: Maritime transport IMDG/GGVSea:	None
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.
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15 Regulatory information	
Designation according to EC guidelines:	Observe the normal safety regulations when handling chemicals The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous
	Materials (GefStoffV).
National regulations	
Information about limitation of use:	For use only by technically qualified individuals.
Water hazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.
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
not in conformance with this Material Safety D	ect the health and safety of employees. This information is furnished without warranty, and any use of the produc lata Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing data specification she	et: Health, Safety and Environmental Department.
Contact: Abbreviations and acronyms:	Zachariah Holt ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of
	ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Raii) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association
	International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association (Contd. on page 3

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Safety Data Sheet according to 1907/2006/EC, Article 31

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(Contd. of page 2) 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) 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)

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