	according to 1907/2006/EC, Article 31	
Printing date 03.08.2010		Revision: 03.08.2010
1 Identification of substance		
Product details	Distancia sold	
Trade name	Diglycolic acid	
Stock number:	B23758, L01953	
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3	E-mail: gcat@matthey.com
	D-76185 Karlsruhe / Germany	www.alfa-chemcat.com
Informing department: Emergency information:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz	
Emergency mormation.	www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hozarda identification		
2 Hazards identification		
Hazard designation:	Xn Harmful	
Information partaining to particular departs		
Information pertaining to particular dangers for man and environment	R 22 Harmful if swallowed.	
GHS label elements	R 36/37/38 Irritating to eyes, respiratory system and skin.	
GIIS laber elements	<b>Varning</b>	
	H302 - Harmful if swallowed.	
	H315 - Causes skin irritation.	
	H319 - Causes serious eye irritation. H335 - May cause respiratory irritation	
Prevention:	H335 - May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P3651 P351 P351 E IN EVES: Biog continuols with water for coveral minu.	
Response:	F303+F331+F330 IF IN ETES. KINSE CAULIOUSIV WILL WALEI IOI SEVELAI ITIITU	ites. Remove contact lenses, if
	present and easy to do. Continue rinsing.	
Storage:	P405 Store locked up.	
Disposal:	P501 Dispose of contents/container in accordance with local/regional/nation	nal/international regulations.
3 Composition/information on ingredients	s	
Chemical characterization:	-	
Designation: (CAS#)	Diglycolic acid (CAS# 110-99-6): 100%	
Identification number(s): EINECS Number:	203-823-5	
4 First aid measures		
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm persist.	. Consult doctor if symptoms
	Seek immediate medical advice.	
After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eye contact	Rinse opened eye for several minutes under running water. Then consult do	octor.
After swallowing	Seek immediaté 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 ale	cohol-resistant foam.
Special hazards caused by the material, its products of combustion or flue gases:	Can be released in case of fire:	
	Carbon monoxide and carbon dioxide	
Protective equipment:	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	
Measures for environmental protection:	Do not allow material to be released to the environment without proper gove	ernmental permits.
Measures for cleaning/collecting:	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 personal protection equipment. See Section 13 for information on disposal.	
7 Handling and starses		
7 Handling and storage		
Handling Information for safe handling:	Keep containers tightly sealed.	
, v	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. Store in cool, dry conditions in well sealed containers.	
8 Exposure controls and personal protect	นอก	
Additional information about design of technical systems:	Properly operating chemical fume hood designed for hazardous chemicals a	and having an average face velocity
toonnour oyotomo.	of at least 100 feet per minute.	and having an avoluge lace velocity
Components with critical values that require	Not required	
monitoring at the workplace: Additional information:	Not required. No data	
Personal protective equipment		
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the che Keep away from foodstuffs, beverages and food.	emicals.
	neep away nom rooustans, beverages and rood.	(Contd. on page 2)
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Trade name <i>Diglycolic acid</i>	
Breathing equipment: Protection of hands: Material of gloves Eye protection: Body protection:	(Contd. of page 1) Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. 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 further marks of quality and varies from manufacturer to manufacturer. Safety glasses Face protection Protective work clothing.
9 Physical and chemical properties:	
General Information Form:	Powder
Smell:	Not determined
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flash point:	142-145°C Not determined Not determined 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
11 Toxicological information Acute toxicity: LD/LC50 values that are relevant for classifi	ication:
Oral LD50 500 mg/kg (rat) Primary irritant effect:	
on the skin: on the sye: 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, 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. 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: IMDG/GGVSea Class: Morine relutantu	None
Marine pollutant: Air transport ICAO-TI and IATA-DGR:	No
ICAO/IATA Class: Transport/Additional information:	None
15 Regulatory information Designation according to EC guidelines: Code letter and hazard designation of product:	Xn Harmful
Risk phrases:	22 Harmful if swallowed. 36/37/38 Irritating to eyes, respiratory system and skin.
Safety phrases:	<ul> <li>26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. (Contd. on page 3)</li> </ul>

(Contd. of page 2) 37 Wear suitable protective clothing and gloves. bloyment restrictions concerning young persons must be observed. use only by technically qualified individuals.
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plement to other information gathered by them, and should make independent judgement of suitability of health and safety of employees. This information is furnished without warranty, and any use of the product eet, or in combination with any other product or process, is the responsibility of the user.
eet, or in combination with any other product or process, is the responsibility of the user. Ith, Safety and Environmental Department. hariah Holt Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of lerous Goods by Road) Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Carriage of port of Dangerous Goods by Rail) E International Air Transport Association DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) E International Civil Aviation Organization -TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) -Globally Harmonized System of Classification and Labelling of Chemicals CS: European Inventory of Existing Commercial Chemical Substances Chemical Astracts Service (division of the American Chemical Society) E Lethel concentration, 50 percent
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