1 Identification of substance	
Product details	(DD) 4.2 Dia(A avanantary) 4.2 otheradiamina dibydraetharida
Trade name	(R,R)-1,2-Bis(4-cyanophenyl)-1,2-ethanediamine dihydrochloride
Stock number:	H25975
Manufacturer/Supplier:	Alfa Aesar GmbH & Co.KG Benzstrasse 3 E-mail: gcat@matthey.com
la forma la contra antes ante	D-76185 Karlsruhe / Germany www.alfa-chemcat.com
Informing department: Emergency information:	Product safety department. Giftnotruf Universität Mainz / Poison Information Center Mainz
	www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240
2 Hazards identification	
Hazard designation:	
	Xn Harmful
Information pertaining to particular dangers	
for man and environment	R 22 Harmful if swallowed. R 36/37/38 Irritating to eyes, respiratory system and skin.
GHS label elements	Warning
	H302 - Harmful if swallowed. H315 - Causes skin irritation.
	H210 Causes serious ave irritation
Prevention:	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
Response:	H315 - 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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	P321 present and easy to do. Continue rinsing. P321 Specific treatment (see on this label).
Storage: Disposal:	P405 Store locked up.
· · · · ·	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
3 Composition/information on ingredient	ts
Chemical characterization: Designation: (CAS#)	(R,R)-1,2-Bis(4-cyanophenyl)-1,2-ethanediamine
	dihydrochloride (CAS# ?): 100%
4 First aid measures	
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult 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.
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 alcohol-resistant foam.
Special hazards caused by the material, its products of combustion or flue gases:	
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
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 Nitrogen oxides (NOx) Hydrogen chloride (HCI)
Special hazards caused by the material, its products of combustion or flue gases: Protective equipment:	Can be released in case of fire: Carbon monoxide and carbon dioxide Nitrogen oxides (NOx) Hydrogen chloride (HCI) Hydrogen cyanide (HCN) Wear self-contained breathing apparatus.
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	according to 1907/2006/EC, Article 31	
Printing date 09.08.2010		Revision: 09.08.2010
Trade name (R,R)-1,2-Bis(4-cyanophenyl)-1,2-ethanediamine dihydrochloride		
Breathing equipment: Protection of hands: Material of gloves Penetration time of glove material Eye protection: Body protection:	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. 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 fu and varies from manufacturer to manufacturer. Impervious gloves Not determined Safety glasses Face protection Protective work clothing.	(Contd. of page 1) urther marks of quality
9 Physical and chemical properties:		
General Information		
Form: Colour: Smell:	Powder Whitish Not determined	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flash point:	Not determined Not determined Not determined Not applicable	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Danger of explosion: Critical values for explosion: Lower: Upper: Steam pressure:	Product is not explosive. Not determined Not determined 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) Hydrogen chloride (HCI) Hydrogen cyanide (prussic acid)	
11 Toxicological information Acute toxicity: 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 No classification data on carcinogenic properties of this material is available from the El 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 bod Do not allow material to be released to the environment without proper governmental pe	ies or sewage system. ermits.
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:	cross-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: Code letter and hazard designation of product:	Xn Harmful	(Contd. on page 3)

GB -

Printing date 09.08.2010	Revision: 09.08.2010	
Trade name (R,R)-1,2-Bis(4-cyanophenyl)-1,2-ethanediamine dihydrochloride		
	(Contd. of page 2)	
Risk phrases:	22 Harmful if swallowed. 36/37/38 Irritating to eyes, respiratory system and skin.	
Safety phrases:	26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37 Wear suitable protective clothing and gloves.	
National regulations		
Information about limitation of use:	For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed.	
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 this information to ensure proper use and protect the health and safety of employees. 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.		
	eet: 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: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Raid) IMDE: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA: DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAC-TI: Technical 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)	