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Printing date 09.09.2010	Safety Data Sheet according to 1907/2006/EC, Article 31 Revision: 09.09.2010	
1 Identification of substance	Nevision. 03.03.2010	
Product details		
Trade name	2,3-Dichloro-5,6-dicyanobenzoquinone	
Stock number: Manufacturer/Supplier:	A11879, L00189 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	
	www.giftinfo.uni-mainz.de Telefon:+49(0)6131/19240	
2 Hazards identification		
Hazard designation:	T Toxic	
Information pertaining to particular dangers		
for man and environment GHS label elements	R 25 Toxic if swallowed. R 29 Contact with water liberates toxic gas.	
Grid label elements	Danger	
Prevention:	H301+EUH029 - Toxic if swallowed. Contact with water liberates toxic gas.	
Response:	P264 Wash thoroughly after handling. P270 Do no eat, drink or smoke when using this product. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
Storage:	P321 Specific treatment (see on this label). P405 Store locked up.	
Disposal:	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
3 Composition/information on ingredients	S	
Chemical characterization: Designation: (CAS#)	2,3-Dichloro-5,6-dicyanobenzoquinone (CAS# 84-58-2), 100%	
Identification number(s): EINECS Number:	201-542-2	
4 First aid measures	201-042-2	
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms	
<b></b>	persist. Seek immediate medical advice.	
After skin contact	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 For safety reasons unsuitable extinguishing	CO2, sand, extinguishing powder. Do not use water.	
agents Special hazards caused by the material, its	Water.	
products of combustion or flue gases:	Can be released in case of fire: Hydrogen cyanide (HCN)	
	Hydrogen cyanide (HCN) Hydrogen chloride (HCI) Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide	
Protective equipment:	Wear self-contained breathing apparatus. Wear full protective suit.	
6 Appidantal valance managuran		
6 Accidental release measures Person-related safety precautions:	Put on breathing apparatus.	
	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 governmental permits. Dispose of contaminated material as waste according to item 13.	
Additional information:	Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents 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	Reep ignition sources away - Do not shoke.	
Requirements to be met by storerooms and containers:	No special requirements.	
Information about storage in one common storage facility:	Do not store together with acids.	
	Do not store together with alkalis (caustic solutions). Store away from oxidizing agents. Store away from reducing 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 having an average face velocity	
	of at least 100 feet per minute. (Contd. on page 2)	

	according to 1907/2006/EC, Article 31	
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Trade name 2,3-Dichloro-5,6-dicyanoben	zoquinone	
		(Contd. of page 1)
Components with critical values that require		
monitoring at the workplace:	Not required.	
Additional information:	No data	
Personal protective equipment	The your processioners measures should be adhered to in handling the chemicale	
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.	
	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:	Use breathing protection with high concentrations.	
Eve protection:	Safety glasses	
Bódý protection:	Protective work clothing.	
9 Physical and chemical properties:		
General Information		
	Dourder	
Form: Colour:	Powder Dark yellow	
Smell:	Not determined	
Change in condition		
Melting point/Melting range:	211-213°C	
Boiling point/Boiling range: Sublimation temperature / start:	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:	Not determined	
Upper:	Not determined	
Steam pressure:	Not determined	
Density	Not determined	
Solubility in / Miscibility with		
Water:	Reacts	
10 Stability and reactivity		
Thermal decomposition / conditions to be		
avoided:	No decomposition if used and stored according to specifications.	
Materials to be avoided:	Water/moisture Acids	
	Bases	
	Oxidizing agents Reducing agents	
Dangerous reactions:	Contact with water releases toxic gases	
	Contact with acids releases toxic dases	
Dangerous products of decomposition:	Hydrogen cyanide (prussic acid) Hydrogen chloride (HCI)	
	Nitrogen oxides (NOx)	
	Carbon monoxide and carbon dioxide	
11 Toxicological information		
11 Toxicological information		
Acute toxicity:	antions.	
LD/LC50 values that are relevant for classific Oral LD50 86 mg/kg (rat)	jaliuli.	
Primary irritant effect:		
on the skin:	Irritant for skin and mucous membranes.	
on the eye: Sensitization:	Irritant effect.	
Other information (about experimental	No sensitizing effect known.	
toxicology):	Mutagenic effects have been observed on tests with bacteria.	
Additional toxicological information:	Danger by skin resorption. To the best of our knowledge the acute and chronic toxicity of this substance is not fully k	nown
	No classification data on carcinogenic properties of this material is available from the EP.	A, 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 bodie	s or sewage system.
	Do not allow material to be released to the environment without proper governmental per	mits.
13 Disposal considerations		
Product:		
Recommendation	Consult state, local or national regulations for proper disposal.	
	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste.	
Hardson day 1 - 1	Must be specially treated under adherence to official regulations.	
Uncleaned packagings: Recommendation:	Disposal must be made according to official regulations.	
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14 Transport information	
Land transport ADR/RID and GGVS/GGVE (	cross-border/domestic)
ADR/RID-GGVS/E Class:	6.1 (T2) Toxic substances.
Kemler Number: UN-Number:	60 3439
Packaging group: Label	III 6.1
Designation of goods:	3439 NITRILES, TOXIC, SOLID, N.O.S. (2,3-Dichloro-5,6-dicyanobenzoquinone)
Limited quantities (LQ) Transport category	LQ9 2
Tunnel restriction code	2 E
Maritime transport IMDG/GGVSea:	
IMDG/GGVSea Class: UN Number:	6.1 3439
Label	6.1
Packaging group: Marine pollutant:	lli No
Correct technical name:	NITRILES, TOXIC, SOLID, N.O.S. (2,3-Dichloro-5,6-dicyanobenzoquinone)
Air transport ICAO-TI and IATA-DGR:	
ICAO/IATA Class:	6.1
UN/ID Number: Label	3439 6.1
Packaging group: Correct technical name:	III NITRILES, TOXIC, SOLID, N.O.S. (2,3-Dichloro-5,6-dicyanobenzoquinone)
UN "Model Regulation":	
	UN3439, NITRILES, TOXIC, SOLID, N.O.S., 6.1, III
15 Regulatory information	
Designation according to EC guidelines:	
Code letter and hazard designation of	
product:	T Toxic
Risk phrases:	25 Toxic if swallowed. 29 Contact with water liberates toxic gas.
Safety phrases:	7/8 Keep container tightly closed and dry.
	20. When using do not eat or drink
	<ul> <li>When suitable protective clothing.</li> <li>We assume that the second second</li></ul>
National regulations	
Information about limitation of use:	Employment restrictions concerning young persons must be observed.
Water hazard class:	For use only by technically qualified individuals. 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 prote not in conformance with this Material Safety Da	at the health and safety of employees. This information is furnished without warranty, and any use of the product ata Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing data specification shee	t: Health, Safety and Environmental Department.
Contact: Abbreviations and acronyms:	Zachariah Holt ADR: Accord europeen 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 Dangarous Coode by Pail)
	Inflasport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods
	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: Európean Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)
	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) IMDC: International Maritime Code for Dangerous Goods IATA: International Miritime Code for Dangerous Goods IATA: International Miritime 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) GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent GB
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