

Trade name: DIEMET-e hardener
Safety data sheet in accordance with 91/155/EEC
 Date of printing : 17.04.2003

01. Identification

01.01 Product details	
01.01.01. Trade name	DIEMET-e hardener
01.02. Identification of the manufacturer	
01.02.01. Address	ERKODENT Erich Kopp GmbH, Siemensstr. 3, D-72285 Pfalzgrafenweiler
01.02.02. Information provided by	Chemie
01.02.03. Telephone number	Tel.: (+49) (0) 7445 / 85 01 - 0, Fax: (+49) (0) 7445 / 20 92
01.02.04. Emergency telephone number :	

02. Composition/information on ingredients

02.01. Chemical characterization	Polyamine
02.02. Substance / product identification	
02.03. Hazardous ingredients	CAS-Nr.: 25154-52-3, EINECS : 246-672-0 Nonylphenol 5 < 12,5% C, N; R22, 34, 50/53 CAS-Nr.: 1477-55-0, EINECS : - M-Xylendiamin 25 <50% C; R20/22, 34, 52, 53 CAS-Nr.: 25620-58-0, EINECS : - Trimethylhexamethyldendiamin 12,5 <25% C; R22, 34, 43, 52, 53 CAS-Nr.: 98-54-4, EINECS : - 4-Tert-Butylphenol 25 < 50% Xn; R36/37/38, 42/43
02.04. Additional information	-

03. Hazards possibilities

03.01. Hazard designation	Corrosive Dangerous for the environment
03.02. Particular information pertaining specific risk for human / environment	Harmful if swallowed. Causes burns. Irritating to respiratory system. May cause sensitization by inhalation and skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

04. First aid measures

04.01. General Information	Remove contaminated clothing immediately and dispose of safely., By continuous complaints consult a physician.
04.02. First aid measures / inhalation.	Ensure supply of fresh air., Remove the casualty into fresh air and keep him calm., In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.
04.03. First aid measures / skin contact.	In case of contact with skin wash off immediately with soap and water., Don't use solvents.
04.04. First aid measures / eye contact.	In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water., Seek medical aid immediately.
04.05. First aid measures / ingestion..	Do not induce vomiting., Take medical treatment.
04.06. Advice to doctor	If individual is drowsy or unconscious place in recovery position (on left side, with head down)., Provide for body rest, protect against loss of heat.

05. Fire-fighting measures

05.01. Suitable extinguishing media	alcohol-resistant foam dry powder carbon dioxide. water mist
05.02. Extinguishing media that must not be used for safety reasons	Full water jet
05.03. Special exposure hazards arising from the	Risk of formation of toxic pyrolysis products.

substance or preparation itself, its combustion products or from resulting gases.	
05.04. Special protective equipment for firefighting	In case of combustion use a suitable breathing apparatus.
05.05. Additional informations (chapter 5)	Collect contaminated firefighting water separately, must not be discharged into the drains.

06. Accidental release measures

06.01. personal precautions.	Ensure adequate ventilation. Keep away sources of ignition. Refer to protective measures listed in sections 7 and 8.
06.02. environmental precautions.	Do not allow to enter drains.
06.03. methods for cleaning up/taking up.	Take up with absorbent material (eg sand, kieselguhr, universal binder)., Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.
06.04. Additional informations (chapter 6).	Dispose of absorbed material in accordance with the regulations.

07. Handling and storage

07.01. Handling	
07.01.01. Hints on safe handling.	Open and handle container with care., Provide good ventilation of working area (local exhaust ventilation if necessary)., Observe the usual precautions for handling chemicals.
07.01.02. Hints for protection against fire and explosion.	Vapours can form an explosive mixture with air. Keep away from sources of ignition - refrain from smoking.
07.02. Storage	
07.02.01. Requirements for storage rooms and vessels.	Store product in closed containers., Store always in containers, which comply with the original packing.
07.02.02. Hints on storage assembly.	Do not store with acids or alkalies., Do not store with strong oxidizing agents.
07.02.03. Further information on storage conditions.	Keep container tightly closed; open and handle with care., Protect from heat and direct sunlight.
07.02.04. Storage category	-
07.02.05. Storage stability	-
07.02.06. Recommended storage temperature	15 – 25 °C

08. Exposure controls/personal protection

08.01. Additional hints on technical system design.	See chapter 7; no measures exceeding the ones mentioned are necessary.
08.02. Ingredients with occupational exposure limits to be monitored	-
08.03. Personal protective equipment Personal protective equipment Persönliche Schutzausrüstung	
08.03.01. Respiratory protection	Breathing apparatus in the event of high concentrations.
08.03.02. Hand protection	Protective gloves
08.03.03. Eye protection	tightly fitting safety glasses
08.03.04. Skin protection	light protective clothing
08.03.05. General protective and hygiene measures	Do not eat, drink or smoke during work time., Observe the usual precautions when handling chemicals.

09. Physical and chemical properties

09.01. Appearance.	
09.01.01. Form	Liquid
09.01.02. Colour	colourless to yellow-brown
09.01.03. Odour	characteristic, pungent
09.02. Safety data	

Changes in physical state			
Boiling point	n.a.	°C	
Flash point			
	225	°C	
Ignition temperature			
	n.a.	°C	
self ignition			
explosion limits	n.a.	Vol %	
Upper explosion limit	n.a.	Vol %	
Vapour pressure			
	n.a.		
Density			
	1,0	g/cm3	20 °C
solubility			
	insoluble	g/l	
Soluble in			
	-	g/l	
pH-Value			
	n.b.		
Viscosity			
	400 - 600	M Pas	20 °C
09.03. Other information (chapter 9.)	-		

10. Stability and reactivity

10.01. Hazardous reactions	Reactions with acids, alkalis and oxidizing agents., No hazardous reactions when stored and handled according to prescribed instructions.
10.02. Hazardous decomposition products	Nitrous oxides (NOx), Carbon monoxide, Carbon dioxide, Irritant gases/vapours
10.03. Thermal decomposition	No decomposition if used as prescribed.
10.04. Additional informations (chapter 10)	-

11. Toxicological information

11.01. Acute toxicity	
11.01.01. Acute oral toxicity	-
11.01.02. Acute dermal toxicity	-
11.01.03. Acute inhalational toxicity	-
11.02. Irritant/corrosive effects	
11.02.01. Irritant effect on skin	irritant
11.02.02. Irritant effect on eyes	irritant - risk of serious damage to eyes
11.03. Sensitization	
11.04. Effects after repeated or prolonged exposition (subacute, subchronic, cronic)	Inhalation of the vapours causes irritation of the respiratory tract and mucous membrane, headaches, nausea, giddiners, vomiting., Irritating effects on the skin and mucous membrane., Kidney damage is possible., Liver damage is possible.
11.08. Other information (chapter 11.)	-
11.09. Experiences made in practice.	-
11.10. General remarks.	-

12. Ecological information

12.01. Data on elimination (persistence and degradability) :	
12.01.01. Physico-chemical eliminability	-
12.01.02. Biodegradability	-
12.02. Behaviour in environment compartments.	-

12.03. Ecotoxic effect	
12.03.01. Fish toxicity	-
12.03.02. Daphnia toxicity	-
12.03.03. Algae toxicity	-
12.03.04. Bacteria toxicity	-

12.04. Further ecological information	Do not allow to enter soil, waterways or waste water canal.
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13. Disposal considerations

13.01. Disposal considerations	
13.01.01. Disposal / product	-
13.01.02. Disposal / contaminated packagings.	Completely emptied packagings can be given for recycling.

13.02. Waste code no. / name of waste (for Germany only)	080111 The stated Waste Code Number(s) according to the European Waste Catalogue (EAK) is (are) considered as a recommendation. A definite setting (establishment) should be carried out in co-ordination with the Regional Waste Disposal Authority.
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14. Transport information

14.01. Land transport ADR/RID	
14.01.01. Class	8
14.01.02. Number/letter	-
14.01.03. Hazard number (Kemler-number)	-
14.01.04. UN number	2735
14.01.05. Technical name	POLYAMINE, FLÜSSIG, ATZEND, N.A.G. m-Xylylendiamin 4-tert-Butylphenol
14.01.06. Remarks	VG/PG: III

14.02. Inland waterways transport ADN/ADNR	
14.02.01. Class	-
14.02.02. Number/letter	-
14.02.03. Category	-
14.02.04. Technical name	POLYAMINE, FLÜSSIG, ATZEND, N.A.G. m-Xylylendiamin 4-tert-Butylphenol
14.02.05. Remarks	-

14.03. Marine transport IMDG/GGVSee	
14.03.01. Class	8
14.03.02. UN number	2735
14.03.03. page	-
14.03.04. EmS	8-05
14.03.05. MFAG	-
14.03.06. MARINE POLUTANT	n.a.
14.03.07. Correct technical name	Polyamines, liquid, corrosive, n.o.s. m-Xylylendiamin 4-tert-Butylphenol
14.03.08. Remarks	PG/VG: III

14.04. Air transport ICAO/IATA	
14.04.01. Class	8
14.04.02. UN number	2735
14.04.03. page	-
14.04.04. Correct technical name	Polyamines, liquid, corrosive, n.o.s. m-Xylylendiamin 4-tert-Butylphenol
14.04.05. Remarks	PG/VG: III

14.05. Other information (chapter 14.)	-
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15. Regulatory information

15.01. Labelling in accordance with GefStoffV/EC	
The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.	

15.01.02. Hazard symbols	C N	Corrosive Dangerous for the environment
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R phrases	R 22	Harmful if swallowed.
	R 34	Causes burns.
	R 37	Irritating to respiratory system.
	R 42/43	May cause sensitization by inhalation and skin contact.
	R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases	S 23	Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
	S 24	Avoid contact with skin.
	S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S 38	In case of insufficient ventilation, wear suitable respiratory equipment.
	S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S 51	Use only in well-ventilated areas.
	S 61	Avoid release to the environment. Refer to special instructions/Safety data sheets.

15.02. Other regulations	
15.02.01. Restriction of occupation.	§ 15a GefStoffV § 22 ArbSchG §§ 4 u. 5 MuSchRiV
15.02.02. Decree for case of interference / remarks (for Germany only).	-
15.02.03. Classification according to VbF / remarks (for Germany only).	n.a.
15.02.04. TA-Luft (Ger.)	-
15.02.05. Water Hazard Class (Ger.)	3
15.02.06. Other regulations, restrictions and prohibition regulations (for Germany only)	-

16. Other information (chapter 16.).

BG Data sheet M 023 „Polyester- and Epoxy-Resins“ (n.a. = Not applicable; n.b.= not determined)
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This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.