

**Trade name: DIEMET-e hardener**  
**Safety data sheet in accordance with (EG) Nr. 1907 / 2006**  
 Date of printing : 10.12.2010

**01. Identification**

Product details	
Trade name	DIEMET-e hardener
Application of the material / of the formulation	

Identification of the manufacturer	
Address	ERKODENT Erich Kopp GmbH, Siemensstr. 3, D-72285 Pfalzgrafenweiler
Information provided by	Chemie
Telephone number	Tel.: (+49) (0) 7445 / 85 01 - 0, Fax: (+49) (0) 7445 / 20 92, e-mail: w.heuchert@erkodent.com
Emergency telephone number :	

**02. Hazards possibilities**

Hazard designation	Corrosive Dangerous for the environment
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.

**03. Composition/information on ingredients**

Chemical characterization	Polyamine					
Substance / product identification						
Hazardous ingredients						
		<b>CAS no.</b>	<b>EINECS no.</b>	<b>%</b>	<b>Hazard symbols</b>	<b>R phrases</b>
	Nonylphenol	25154-52-3	246-672-0	5 < 12,5	C, N	22, 34, 50/53
	M-xylendiamin	1477-55-0	----	25 – 50	C	20/22, 34, 52, 53
	Trimethylhexa methyldendiamin	25620-58-0	----	12,5 – 25	C	36/37/38, 42/43
Additional information	-					

**04. First aid measures**

General Information	Remove contaminated clothing immediately and dispose of safely., By continuous complaints consult a physician.
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.
First aid measures / skin contact.	In case of contact with skin wash off immediately with soap and water., Don't use solvents.
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.
First aid measures / ingestion..	Do not induce vomiting., Take medical treatment.
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**

Suitable extinguishing media	alcohol-resistant foam, dry powder, carbon dioxide., water mist
Extinguishing media that must not be used for safety reasons	Full water jet

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

## 06. Accidental release measures

personal precautions.	Ensure adequate ventilation., Keep away sources of ignition., Refer to protective measures listed in sections 7 and 8.
environmental precautions.	Do not allow to enter drains.
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.
Additional informations (chapter 6).	Dispose of absorbed material in accordance with the regulations.

## 07. Handling and storage

Handling	
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.
Hints for protection against fire and explosion.	Vapours can form an explosive mixture with air., Keep away from sources of ignition - refrain from smoking.

Storage	
Requirements for storage rooms and vessels.	Store product in closed containers., Store always in containers, which comply with the original packing.
Hints on storage assembly.	Do not store with acids or alkalies., Do not store with strong oxidizing agents.
Further information on storage conditions.	Keep container tightly closed; open and handle with care., Protect from heat and direct sunlight.
Storage category	-
Storage stability	-
Recommended storage temperature	15 – 25 °C

## 08. Exposure controls/personal protection

Additional hints on technical system design.	See chapter 7; no measures exceeding the ones mentioned are necessary.
Ingredients with occupational exposure limits to be monitored	-

Personal protective equipment <input type="checkbox"/> Personal protective equipment <input type="checkbox"/> Persönliche Schutzausrüstung	
Respiratory protection	Breathing apparatus in the event of high concentrations.
Hand protection	Protective gloves
Eye protection	tightly fitting safety glasses
Skin protection	light protective clothing
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

Appearance.	
Form	Liquid
Colour	colourless to yellow-brown
Odour	characteristic, pungent

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 in water			
	insoluble	g/l	
Soluble in			
	-	g/l	
pH-Value			
	n.b.		
Viscosity			
	400 - 600	M Pas	20 °C

Other information ( chapter 9.)	-
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## 10. Stability and reactivity

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

## 11. Toxicologic indications

Acute toxicity	
Acute oral toxicity	-
Acute dermal toxicity	-
Acute inhalational toxicity	-
Irritant/corrosive effects	
Irritant effect on skin	irritant
Irritant effect on eyes	irritant - risk of serious damage to eyes
Sensitization	
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.
Other information (chapter 11.)	-
Experiences made in practice.	-
General remarks.	-

## 12. Environmental indications

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

Ecotoxic effect	
Fish toxicity	-
Daphnia toxicity	-
Algae toxicity	-
Bacteria toxicity	-

Further ecological information	Do not allow to enter soil, waterways or waste water canal.
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Result of the evaluation of PBT characteristics	
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### 13. Disposal considerations

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

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

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

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

Marine transport IMDG/GGVSee	
Class	8
UN number	2735
page	-
EmS	8-05
MFAG	-
MARINE POLLUTANT	n.a.
Correct technical name	Polyamines, liquid, corrosive, n.o.s. m-Xylylendiamin 4-tert-Butylphenol
Remarks	PG/VG: III

Air transport ICAO/IATA	
Class	8
UN number	2735
page	-
Correct technical name	Polyamines, liquid, corrosive, n.o.s. m-Xylylendiamin 4-tert-Butylphenol

Remarks	PG/VG: III
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Other information (chapter 14.)	-
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## 15. Regulatory information

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

Hazard symbols	C N	Corrosive Dangerous for the environment
TA-Luft / components		m-Xylendiamin Trimethylhexamethyldendiamin 4-tert-Butylphenol Nonylphenol

R phrases	R 22	Harmful if swallowed.
	<b>R 34</b>	Causes burns.
	<b>R 37</b>	Irritating to respiratory system.
	<b>R 42/43</b>	May cause sensitization by inhalation and skin contact.
	<b>R 51/53</b>	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).
	<b>S 24</b>	Avoid contact with skin.
	S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	<b>S 36/37/39</b>	Wear suitable protective clothing, gloves and eye/face protection.
	<b>S 38</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
	<b>S 45</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	<b>S 51</b>	Use only in well-ventilated areas.
	<b>S 61</b>	Avoid release to the environment. Refer to special instructions/Safety data sheets.

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

## 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.