

Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 22.07.2011

Revision 17.05.2011 (GB) Version 1.3

primopoly Hardener



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1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Name of product primopoly Hardener

Manufacturer/distributor

primotec - Joachim Mosch e.K.
Tannenwaldallee 4, 61348 Bad Homburg, Deutschland
Phone + 49 (0)6172-99770-0, Fax + 49 (0)6172- 99770-99
E-Mail primotec@primogroup.de
Internet www.primogroup.de

Advice

F&E
Fax +49 (0)6172-99770-99

Emergency advice

Giftinformationszentrum Universitätsklinikum Mainz
Phone +49 (0)6131-19240

Recommended intended purpose(s)

dental use

2. Hazards identification

Classification according to 67/548/EEC or 1999/45/EC

Xn; R20
Xi; R36/37/38
Carc. Cat. 3; R40
R42/43
Xn; R48/20

R-phrases

20 Harmful by inhalation.
36/37/38 Irritating to eyes, respiratory system and skin.
40 Limited evidence of a carcinogenic effect.
42/43 May cause sensitization by inhalation and skin contact.
48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Labelling according to 67/548/EEC or 1999/45/EC

Xn Harmful



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S-phrases

24/25 Avoid contact with skin and eyes.
36/37 Wear suitable protective clothing and gloves.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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60 This material and its container must be disposed of as hazardous waste.
7 Keep container tightly closed.

Hazardous ingredients for labeling

polymethylenepolyphenol isocyanate, formaldehyde, oligomeric reaction products with aniline and phosgene

Special rules for supplemental label elements for certain mixtures

Contains isocyanates. See information supplied by the manufacturer.

3. Composition/information on ingredients

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
9016-87-9		polymethylenepolyphenol isocyanate	50 - 100	Carc.Cat.3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43
32055-14-4		formaldehyde, oligomeric reaction products with aniline and phosgene	25 - 50	Carc.Cat.3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43

4. First aid measures

General information

Remove contaminated soaked clothing immediately.

Symptoms of poisoning may not occur for many hours, therefore keep under medical supervision for at least 48 hours.

In case of inhalation

Ensure of fresh air.

Refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.

Call for a doctor immediately.

5. Firefighting measures

Suitable extinguishing media

Dry powder

Carbon dioxide

Water spray jet

Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

Nitrogen gases (NO_x)

Carbon monoxide (CO)

Hydrogen cyanide (HCN)

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Additional information

Cool endangered containers with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.



6. Accidental release measures

Personal precautions

Ensure adequate ventilation.
Use personal protective clothing.

Environmental precautions

Do not discharge into the drains or bodies of water..
Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).
After taking up the material dispose according to regulation.

7. Handling and storage

Advice on safe handling

Avoid formation of aerosols.
Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.
Take the usual precautions when handling with chemicals.

Requirements for storage rooms and vessels

Keep only in original container.

Advice on storage compatibility

Do not store together with food.

Further information on storage conditions

Keep container dry, tightly closed and store at cool and aired place.
Do not store at temperature above 25°C (=77°F).
Do not keep at temperatures below 5°C.

Storage group 10

8. Exposure controls/personal protection

Respiratory protection

Breathing apparatus in the event of high concentrations.
Breathing apparatus with combination filter A2/P2

Hand protection

Protective gloves

Eye protection

safety goggles with side protection

Skin protection

Light protective clothing.

General protective measures

Avoid contact with eyes and skin
Do not inhale dust/fumes/aerosols.

Hygiene measures

Clean skin thoroughly after working.
Remove soiled or soaked clothing immediately.
Keep away from food and drink.

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9. Physical and chemical properties

Form liquid	Colour brown	Odour characteristic
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Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	< 7	20 °C			
boiling point	> 350 °C			DIN 53171	
melting point					not determined
Flash point	> 229 °C			DIN EN 22719 / ISO 2719	
Ignition temperature	> 500 °C			DIN 51794	
Autoignition					no
Vapour pressure	0,0002 hPa	25 °C			
Density	1,22 g/cm ³	20 °C		DIN 51757	
Solubility in water					more or less insoluble
Viscosity dynamic	145 mPa*s	20 °C		DIN 53019	
Explosive properties no					

10. Stability and reactivity

Conditions to avoid

Protect from heat.

Materials to avoid

Risk of bursting.
Reactions with water.
Reactions with alcohols.
Reactions with damp air.
Reactions with amines.

Hazardous decomposition products

Carbon monoxide
Nitrous oxides (NO_x)
Hydrocyanic acid

11. Toxicological information

Acute toxicity/Irritability/Sensitization

Value/Validation	Species	Method	Remark
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	Value/Validation	Species	Method	Remark
LD50 acute oral	> 2200 mg/kg	mouse		Formaldehyd, oligomere Reaktionsprodukte mit Anilin und Phosgen (oligomeres MDI)
LC50 acute inhalation	0,49 mg/l (4 h)	rat		Formaldehyd, oligomere Reaktionsprodukte mit Anilin und Phosgen (oligomeres MDI)
Irritability skin	irritant			
Irritability eye	irritant			
Skin sensitization	sensitizing			
Sensitization respiratory system	sensitizing			

12. Ecological information

Ecotoxicological effects	Value	Species	Method	Validation
Fish	LC0 > 10000 mg/l (96 h)	Brachidanio rerio		Formaldehyd, oligomere Reaktionsprodukte mit Anilin und Phosgen (oligomeres MDI)
Daphnia	EC50 0,35 mg/l (24 h)	Daphnia magna		Formaldehyd, oligomere Reaktionsprodukte mit Anilin und Phosgen (oligomeres MDI)
Bacteria	EC0 > 10000 mg/l (16 h)	Pseudomonas putida		Formaldehyd, oligomere Reaktionsprodukte mit Anilin und Phosgen (oligomeres MDI)

General regulation

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

13. Disposal considerations

Recommendations for the product

In accordance with regulations for special waste, must be taken to a special waste disposal.

Recommendations for packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of like the product.

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14. Transport information

Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

15. Regulatory information

National regulations

Water hazard class 1 self-classification

Technical instruction air

Class I Anteil 99,9 %

16. Other information

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 20 Harmful by inhalation.

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