

Trade name: Leiston hardener
Safety data sheet in accordance with 91/155/EEC
 Date of printing : 28.01.2003

01. Identification

01.01 Product details	
01.01.01. Trade name	Leiston Härter / Leiston 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	Dibenzoylperoxid, filler
02.02. Substance / product identification	CAS no.: 94-36-0; EINECS: 202-327-6; Xi, O; R7,36,43 ; 25 < 50 %
02.03. Hazardous ingredients	Dibenzoylperoxid; Benzoylperoxid
02.04. Additional information	-

03. Hazards possibilities

03.01. Hazard designation	Oxidizing, Irritant
03.02. Particular information pertaining specific risk for human / environment	May cause fire., Irritating to eyes., May cause sensitization by skin contact.

04. First aid measures

04.01. General Information	Remove contaminated clothing immediately and dispose of safely., By continuous complaints consult a physician., Never give anything by mouth to an unconscious person.
04.02. First aid measures / inhalation.	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., Summon a doctor immediately.
04.05. First aid measures / ingestion.	Rinse out mouth and give plenty of water to drink., Summon a doctor immediately.
04.06. Advice to doctor	-

05. Fire-fighting measures

05.01. Suitable extinguishing media	foam, dry chemical extinguisher, water mist
05.02. Extinguishing media that must not be used for safety reasons	-
05.03. Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases.	In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO), Carbon dioxide (CO ₂), not combusted Hydrocarbons
05.04. Special protective equipment for firefighting	Use self-contained breathing apparatus.
05.05. Additional informations (chapter 5)	Cool endangered containers with water spray jet.

06. Accidental release measures

06.01. personal precautions.	Keep away sources of ignition., Avoid contact with skin, eyes and clothing., 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.	Pick up mechanically. Rinse away rest with warm water.
06.04. Additional informations (chapter 6).	-

07. Handling and storage

07.01. Handling	
07.01.01. Hints on safe handling.	Observe the usual precautions for handling chemicals., Avoid dust formation.
07.01.02. Hints for protection against fire and explosion.	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.	Keep away from flammable substances., Do not store with acids or alkalies., Do not store together with metals.
07.02.03. Further information on storage conditions.	Keep container tightly closed, cool and dry.
07.02.04. Storage category	Organic peroxides
07.02.05. Storage stability	-
07.02.06. Recommended storage temperature	Max. + 25 °C

08. Exposure controls/personal protection

08.01. Additional hints on technical system design.	-
08.02. Ingredients with occupational exposure limits to be monitored	EINECS: 202-327-6, Dibenzoylperoxid; Benzoylperoxid; MAK: 5.00 mg/m ³ (TRGS 900)
08.03. Personal protective equipment Personal protective equipment Persönliche Schutzausrüstung	
08.03.01. Respiratory protection	Dust mask
08.03.02. Hand protection	Chemical resistant gloves
08.03.03. Eye protection	safety glasses
08.03.04. Skin protection	light protective clothing
08.03.05. General protective and hygiene measures	Observe the usual precautions when handling chemicals. Clean skin thoroughly after work; apply skin cream.

09. Physical and chemical properties

09.01. Appearance.	
09.01.01. Form	Fine powder
09.01.02. Colour	colourless to white
09.01.03. Odour	perceptible, characteristic

09.02. Safety data	
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Changes in physical state

	n.a.	°C	
Flash point	n.a.	°C	
Ignition temperature	n.a.	°C	
self ignition			
explosion limits	n.a.		
Upper explosion limit	n.a.		
Vapour pressure	n.a.		
Density	0,62	kg/l	
solubility	insoluble	g/l	
Soluble in	n.a.	g/l	
pH-Value	n.a.		
Viscosity			

	n.a.		
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09.03. Other information (chapter 9.)	-
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10. Stability and reactivity

10.01. Hazardous reactions	Reactions with amines., acids, Reactions with alkalies., Reactions with reducing agents.
10.02. Hazardous decomposition products	Carbon monoxide, Carbon dioxide, Hydrocarbons
10.03. Thermal decomposition	Decomposes without melting.: ca 60 °C
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	-
11.02.02. Irritant effect on eyes	irritant
11.03. Sensitization	-
11.04. Effects after repeated or prolonged exposition (subacute, subchronic, cronic)	-
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.	The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.
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.

13. Disposal considerations

13.01. Disposal considerations	
13.01.01. Disposal / product	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.
13.01.02. Disposal / contaminated packagings.	Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
13.02. Waste code no. / name of waste (for Germany only)	59904 peroxides

14. Transport information

14.01. Land transport ADR/RID	
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14.01.01. Class	5.2
14.01.02. Number/letter	-
14.01.03. Hazard number (Kemler-number)	-
14.01.04. UN number	3106
14.01.05. Technical name	ORGANISCHES PEROXID TYP D, Fest: Dibenzoylperoxid
14.01.06. Remarks	VG:II

14.02. Inland waterways transport ADN/ADNR	
14.02.01. Class	5.2
14.02.02. Number/letter	-
14.02.03. Category	-
14.02.04. Technical name	ORGANIC PEROXIDE TYPE D, SOLID : Dibenzoylperoxid
14.02.05. Remarks	VG:II

14.03. Marine transport IMDG/GGVSee	
14.03.01. Class	5.2
14.03.02. UN number	3106
14.03.03. page	-
14.03.04. EmS	5.2-01
14.03.05. MFAG	-
14.03.06. MARINE POLLUTANT	--
14.03.07. Correct technical name	ORGANIC PEROXIDE TYPE D, SOLID : Dibenzoylperoxid
14.03.08. Remarks	VG:II

14.04. Air transport ICAO/IATA	
14.04.01. Class	5.2
14.04.02. UN number	3106
14.04.03. page	-
14.04.04. Correct technical name	ORGANIC PEROXIDE TYPE D, SOLID : Dibenzoylperoxid
14.04.05. Remarks	VG:II

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.	

15.01.02. Hazard symbols	O XI	Oxidizing Irritant
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R phrases	R 7	May cause fire.
	R 36	Irritating to eyes.
	R 43	May cause sensitization by skin contact.

S phrases	S 3/7	Keep container tightly closed in a cool place.
	S 14	Keep away from ... (incompatible materials to be indicated by the manufacturer).; Reactions with amines., acids, Reactions with alkalies., Reactions with reducing agents.
	S 36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

15.02. Other regulations	
15.02.01. Restriction of occupation.	§ 15a GefStoffV § 22 ArbSchG §§ 4,5 MuSchRiv
15.02.02. Decree for case of interference / remarks (for Germany only).	-

15.02.03. Classification according to VbF / remarks (for Germany only).	NU
15.02.04. TA-Luft (Ger.)	-
15.02.05. Water Hazard Class (Ger.)	1
15.02.06. Other regulations, restrictions and prohibition regulations (for Germany only)	-

16. Other information (chapter 16.).

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(n.a. = Not applicable; n.b.= not determined)

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.