

Trade name: Leiston liquid
Safety data sheet in accordance with 91/155/EEC
 Date of printing : 03.03.2003

01. Identification

01.01 Product details	
01.01.01. Trade name	Leiston Flüssigkeit / Leiston liquid
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	Polyesterharz
02.02. Substance / product identification	CAS-Nr.: 100-42-5; EINECS: 202-851-5; Xn; R10,20,36/38 ; 25 < 50 %
02.03. Hazardous ingredients	Styrol
02.04. Additional information	

03. Hazards possibilities

03.01. Hazard designation	Harmful
03.02. Particular information pertaining specific risk for human / environment	Flammable, Harmful by inhalation., Irritating to eyes and skin.

04. First aid measures

04.01. General Information	Remove contaminated clothing immediately and dispose of safely. In case of accident or if you feel unwell, seek medical advice immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.
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. Seek medical aid immediately.
04.05. First aid measures / ingestion..	Summon a doctor immediately. Do not induce vomiting.. Provide for body rest, protect against loss of heat.
04.06. Advice to doctor	-

05. Fire-fighting measures

05.01. Suitable extinguishing media	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 substance or preparation itself, its combustion products or from resulting gases.	In case combustion evolution of dangerous gases possible.
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 discharge into the drains/surface

	waters/groundwater. In case the product spills into sewage waters, immediately inform the authorities.
06.03. methods for cleaning up/taking up.	Take up with absorbent material (eg sand, kieselguhr, universal binder). Dispose of absorbed material in accordance with the regulations. Clean contaminated floors and objects thoroughly, observing environmental regulations.
06.04. Additional informations (chapter 6).	-

07. Handling and storage

07.01. Handling	
07.01.01. Hints on safe handling.	Provide good ventilation of working area (local exhaust ventilation if necessary)., Observe the usual precautions for handling chemicals., Take precautionary measures against electrostatic loading.
07.01.02. Hints for protection against fire and explosion.	Keep away from sources of ignition - refrain from smoking., Vapours can form an explosive mixture with air., The product vapours are heavier than air.

07.02. Storage	
07.02.01. Requirements for storage rooms and vessels.	Store product in closed containers.
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 and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.
07.02.04. Storage category	
07.02.05. Storage stability	
07.02.06. Recommended storage temperature	

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	EINECS: 202-851-5 Styrol; MAK 20.00 ppm

08.03. Personal protective equipment Personal protective equipment Persönliche Schutzausrüstung	
08.03.01. Respiratory protection	If workplace limits are exceeded, a respirations protection approved for this particular job must be worn.
08.03.02. Hand protection	Protective gloves
08.03.03. Eye protection	safety glasses
08.03.04. Skin protection	light protective clothing, anti-static
08.03.05. General protective and hygiene measures	Avoid contact with eyes and skin., Keep away from foodstuffs and beverages., Wash hands before breaks and after work., Use barrier skin cream.

09. Physical and chemical properties

09.01. Appearance.	
09.01.01. Form	Liquid
09.01.02. Colour	yellow
09.01.03. Odour	of styrene

09.02. Safety data	
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Changes in physical state

Boiling point	ca 110	°C	
Flash point	> 23	°C	

Ignition temperature

	415	°C	
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self ignition

explosion limits	1,2	Vol %	
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Upper explosion limit	8,9	Vol %	
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Vapour pressure

	2	mbar	20°C
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Density

	1.15	g/cm3	20 °C
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solubility

	insoluble	g/l	
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Soluble in

	-	g/l	
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pH-Value

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Viscosity

Efflux time	178	Sec. 4mm	20 °C
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09.03. Other information (chapter 9.)	-		
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10. Stability and reactivity

10.01. Hazardous reactions	Reactions with acids, alkalies and oxidizing agents.
10.02. Hazardous decomposition products	Nitrous oxides (NOx), Carbon monoxide, Carbon dioxide
10.03. Thermal decomposition	Stable at ambient temperature., No decomposition if used as prescribed.
10.04. Additional informations (chapter 10)	No hazardous reactions when stored and handled according to prescribed instructions.

11. Toxicological information

11.01. Acute toxicity	Inhalation of the vapours causes irritation of the respiratory tract and mucous membrane, headaches, nausea, giddiners, vomiting.
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	Frequent persistent contact with the skin can cause skin irritation., Solvent removes skin oil from the skin.
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.Kidney damage is possible., Liver damage is possible., Damage to the lungs possible.
11.08. Other information (chapter 11.)	-
11.09. Experiences made in practice.	The solvent vapours cause an irritating effect to the respiratory organs.
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.	Not cleanable packings should be disposed of in agreement with the Regional Waste Disposal Authority.

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	< 450 I (3 > 450 I)
14.01.02. Number/letter	-
14.01.03. Hazard number (Kemler-number)	
14.01.04. UN number	1866
14.01.05. Technical name	Harzlösung
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	-
14.02.05. Remarks	-

14.03. Marine transport IMDG/GGVSee	
14.03.01. Class	9 (< 450 I)
14.03.02. UN number	3082
14.03.03. page	-
14.03.04. EmS	-
14.03.05. MFAG	-
14.03.06. MARINE POLLUTANT	-
14.03.07. Correct technical name	Environmentally Hazardous Substance, Liquid N:o.S: synthopan 153, 68 % IG ST
14.03.08. Remarks	VG/PG: III

14.04. Air transport ICAO/IATA	
14.04.01. Class	3
14.04.02. UN number	1866
14.04.03. page	
14.04.04. Correct technical name	Resin Solution, flammable
14.04.05. Remarks	VG/PG: 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.	

15.01.02. Hazard symbols	Xn	Harmful
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R phrases	R 10	Flammable
	R 20	Harmful by inhalation.
	R 36/38	Irritating to eyes and skin.

S phrases	S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S 51	Use only in well-ventilated areas.

15.02. Other regulations	
15.02.01. Restriction of occupation.	-
15.02.02. Decree for case of interference / remarks (for Germany only).	-
15.02.03. Classification according to VbF / remarks (for Germany only).	-
15.02.04. TA-Luft (Ger.)	II 34,9 %
15.02.05. Water Hazard Class (Ger.)	WGk: 2 VCI Water Hazard Class List
15.02.06. Other regulations, restrictions and prohibition regulations (for Germany only)	§ 15a d. GefStoffV § 22 JarbSchG §§ 4 u. 5 MuSchRiV

16. Other information (chapter 16).

15.02.06.417: BG-Data sheet M 017 „Solvents“

(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.