

MATERIAL SAFETY DATA SHEET

According to 91/155/EWG

Reviewed: 06.06.2006

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1. Identification of Substance

- **Product details:** **Trade Name:** LAIFLITE LF
- **Manufacturer / Supplier:**
Laif engineering GmbH
Hansestraße 16
D-48165 Münster - GERMANY
Tel. +49 (0)2501-9259-0
Fax +49 (0)2501-9259-29
e-mail: info@laif.net
Internet: www.laif.net
- **Further information obtainable from:**
- **Emergency number:** Local hospital

2. Composition / Data on Components

- **Chemical characterization**

CAS-No.	EINECS-No.	EG Index	EG-Description	Concentration	Identification code R-No.
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- **Description (preparation):** Mixture of aliphatic alcohol with stabilisators and acid activators
- **Dangerous components:**

CAS-No.	EINECS-No. R-No.	EG Index	EG-Description	Concentration	Identification code
111-76-2 34-37	203-905-0	603-014-00-0	2-Butoxyethanol	4 to 8%	Xn R
7647-01-0	231-595-7	017-002-01-X	Hydrogen Chloride	1 to 3%	C

3. Hazard Identification

- **Hazard description:**
- **Inhalation:** Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- **Skin contact:** Not expected to present a significant skin hazard under anticipated conditions of normal use.
- **Eye contact:** Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
- **Ingestion:** Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
- **Information concerning to particular hazards to man and environment:**
Specific hazards are not applicable. Nevertheless hazard properties can not excluded. The product has to be handled as carefully as hazard chemicals.

4. First Air Measure

- **General information:** Immediately remove any clothing soiled by the product.
- **Inhalation:** Supply fresh air, consult doctor in case of complaints
- **Skin contact:** Immediately wash with water and soap and rinse thoroughly. Never use organic solvents
- **Eye contact:** Rinse opened eye for several minutes. Consult a doctor immediately
- **Swallowing:** Drink plenty of water and provide fresh air. Consult a doctor immediately

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5. Fire Fighting Measures

- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam
- **Not suitable extinguishing agents:**
- **Special hazards:** not applicable
- **Protective equipment:** Wear usual protective clothes for fire fighting. Wear self-contained respiratory protective device

6. Accidental Release Measure

- **Person-related safety precautions:** Prevent eye and skin contact through wearing protective clothes, gloves and glasses. Particular danger of slipping from leaked/spilled product.
- **Measures for environmental protection:** Do not allow to enter sewers / surface or ground water. Inform neighbourhood.
- **Measures for cleaning / collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. Handling and Storage

- **Handling:**
Information for safety handling: The product has to be handled as carefully as hazard chemicals.
- **Information about fire- and explosion protection:** No special measures required
- **Storage:**
Requirements to be met by storerooms and receptacles: Sufficient ventilation and deaeration
Information about storage in one common storage facility: Not required
Further information about storage conditions: Keep receptacle tightly sealed
Storage Class:
VbF-Class: void

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8. Exposure Controls and Personal Protection Gear

- Additional information about design and technical facilities:

- Ingredients with limit values that require monitoring at workplace:

CAS-No.	EG-Description	Method	Value	Unit
7647-01-0	Hydrogen Chloride	MAK	2,0	3,0 mg/m ³ ml/m ³

- Additional information: Basis are the guilty lists during preparation
- Personal protective equipment:
General protective / hygienic measures: Keep away from residential places, food products, beverages and feeding stuff.
- Respiratory protection: Not required
- Hand protection: Protective chemical resistant gloves
- Eye protection: Chemical goggles or safety glasses
- Body protection: Chemical resistant work clothes
- Ingestion: When using, do not eat, drink or smoke.

9. Physical and Chemical Properties

Form: fluid

Colour: amber Odour: weak / characteristic

	Value/Range	Unit	Method
Melting point / Melting range:	- 5	°C	According to
67/548/EWG or a comparable method			
Boiling point / Boiling range:		°C	
Flash point:	284	°C	
Ignition temperature:	> 400 (*)	°C	
Self ignition:	Product is not self-igniting		
Danger of explosion:	Product does not present a explosion hazard		
Explosion values:	Upper:	Vol-%	
	Lower:	Vol-%	
Vapour pressure at °C:		hpa	
Density at 20 °C:	1,1	g/ml	
Solubility in / Miscibility with:			
water at 20 °C	Fully miscible	g/l	
at °C		g/l	
pH-value (100 g/l H ₂ O, 20 °C):	>pH 2,0		
Viscosity (dynamic) at 20 °C	230 +/- 50	mPas	DIN 53015 Höppler
Solvent content:	H ₂ O ca. 15	%	Kug. 4
	Organic	%	
Solid substance content:	ca. 85	%	
Otherwise:			

(*) Value deducted from similar chemical products

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10. Stability and Reactivity

- **Thermal decomposition / conditions to be avoid:** Extremely high or low temperature
- **Material to avoid:** Alkali, Oxidizing agent
- **Decomposition products:** No dangerous decomposition products known
- **Dangerous reactions:** No dangerous reactions known

11. Toxicological Information

- **LD/LC50-values relevant for classification:**

Typ	Value/Unit	Species	Method
Oral	mg/kg	Ratte	OECD 404
Dermal	mg/kg		(similar chem. product)
Inhalativ	mg/l/4h		

- **Primary irritant effect:**
 - on skin: weak irritant effect (assumption)
 - on eye: weak irritant effect (assumption)
- **Sensitization:** no sensitising effects known
- **Additional tox. information:**
- **Subacute/chronic toxicity:**
- **Human experience:**

12. Ecological Information

- **Information about elimination (persistence and degradeability):**
 - Elimination: 20 – 60% DOC (OECD Conf. Test) (*)
- **Economical toxicological effects**
 - Equivalent toxicity: n.E.
- **Reaction in purification plants:** At concentrations up to 2000 mg/l malfunctions in biological purification plants are not expectable (*)
- **Other ecological information**
 - CSB-value: mg/g Remark:
 - BSB5-value: mg/g Remark:
 - AOX-value: The product does not contain AOX components

Heavy Metals:

(-) value deducted from similar chemical products

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13. Disposal considerations

- **Product:**
Recommendation: Must be specially treated adhering to official regulations
- **Disposal Key No.:**
- **Disposal name:**
- **Uncleaned packing:**
Recommendation: Disposal must be made according to official regulations
Recommended cleaning agents: Water, if necessary together with cleaning agents

14. Shipping Instructions

- **Land transport ADR/RID and GGVS/GGVE (cross-border/inland)**
ADR/RID-GGVS/E Class: Digit/Letter:
Warning Sign Hazard-No.: Compound-No.:
Hazard release:
- **Inland navigation transport ADN/ADR**
ADN/ADR Class: Digit/Letter:
Hazard release:
- **Maritime transport IMDG/GGVSee:**
IMDG/GGVSee Class: UN-No. Page:
EmS-No.: MFAG: Pack.-Group:
Marine pollutant:
Technical name:
- **Air transport ICAO and IATA-DGR**
IACO/IATA Class: UN/ID-No. Pack.-Group
Technical name:

15. Regulations

- **Labelling according to EU guidelines:** The product is not subject to identification regulations under EU directives and the Ordinance on Hazardous Materials (German GefStoffV)

Letter: **Hazard Description:**

Hazard Components for labeling:

R:

S:

Special compositions to be labeled:

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• **National Regulations:** Not subject to identification

Classification according to VBF: void

Water hazard class: WGK 2 – water hazard class 2 (self assessment): hazardous for water

Others:

16. Other Information

The contents and format of this SDS are in accordance with EEC Commission Directive 93/112EC.

Disclaimer of Liability:

The information in this Safety Data Sheet (SDS) was obtained from sources which we are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be use only for this product. If the product is used as a component in another product, this SDS information may not be applicable.