

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:

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