



SAFETY DATA SHEET

LACO Refill Ink 30ml



SECTION 1: Identification of the substance/mixture and of the company/undertaking

Date issued 20.02.2012
Revision date 20.03.2013

1.1. Product identifier

Product name LACO Refill Ink 30ml

1.2. Relevant identified uses of the substance or mixture and uses advised against

Function Ink for stamp pads
Product group Office supplies
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Company name LACO OFFICE PRODUCTS
Finke GmbH
Postal address Bremer Strasse 44
Postcode 27367
City SOTTRUM
Country Germany
Tel +49 4264 830814
Fax +49 4264 830826
E-mail info@laco-germany.de
Website http://www.laco-germany.de
Enterprise no. DE 116325893
Contact person Mr. Andreas Lütjerath

1.4. Emergency telephone number

Emergency telephone LACO Monday - Wednesday 9 am - 4 pm Friday 9 am - 1 pm :+49 4264 830814

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to 67/548/EEC or 1999/45/EC Xn; R22
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] Acute tox. 4; H302; Calculation method

2.2. Label elements

Hazard symbol



R phrases R22 Harmful if swallowed.
S phrases S2 Keep out of the reach of children.
S13 Keep away from food, drink and animal feedingstuffs.

S46 If swallowed, seek medical advice immediately and show this container or label.
Contains formaldehyde. May produce an allergic reaction.

Hazard Pictograms (CLP)



Composition on the label	Formaldehyde ...%: ≤ 0,5 % wt/wt, 2,2'-Oxybisethanol: 25 % wt/wt (Diethylene glycol)
Signal word	Warning
Hazard statements	H302 Harmful if swallowed. EUH 208 Contains formaldehyde. May produce an allergic reaction.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

2.3. Other hazards

Description of hazard	This product is not flammable due to the large water content.
Hazard description general	See section 8.
Physicochemical effect	Not known.
Health effect	May cause temporary irritation on skin or eye contact. The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.
Environmental effect	This product does not contain any PBT or vPvB substances.
Effects and symptoms of possible misuses	Not known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Component name	Identification	Classification	Contents
Formaldehyde ...%	CAS no.: 50-00-0 EC no.: 200-001-8 Index no.: 605-001-00-5 Synonyms: Formaldehyde	Cancer 3; R40 T; R23/24/25 C; R34 R43 Carc. 2; H351 Acute tox. 3; H331 Acute tox. 3; H311 Acute tox. 3; H301 Skin Corr. 1B; H314 Skin Sens. 1; H317	≤ 0,5 % wt/wt
2,2'-Oxybisethanol (Diethylene glycol)	CAS no.: 111-46-6 EC no.: 203-872-2 Index no.: 603-140-00-6 Synonyms: 2,2'-Oxydiethanol	Xn; R22 Acute tox. 4; H302	25 % wt/wt
Column headings	CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in; %, %wt/wt, %vol/wt, %vol/vol, mg/m ³ , ppb, ppm, weight%, vol%		
HH/HF/HE	T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremely flammable, F = Very flammable, N = Environmental hazard		
Description of the mixture	Aqueous solution of organic substances.		

Component comments	No other components with impact on the classification and labeling available.
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SECTION 4: First aid measures

4.1. Description of first aid measures

General	Remove affected person from source of contamination. Contact physician if discomfort continues.
Inhalation	Due to the small packaging the risk of inhalation is minimal.
Skin contact	Rinse with water. Contact physician if discomfort continues.
Eye contact	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Consult a physician for specific advice.
Ingestion	Rinse mouth with water. Let victim drink some glasses of water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Contact physician if larger quantity has been consumed.
Recommended personal protective equipment for first aid responders	No recommendation given.

4.2. Most important symptoms and effects, both acute and delayed

Information for health personnel	Decontamination, symptomatic treatment.
Delayed symptoms and effects	cf. section 2.3

4.3. Indication of any immediate medical attention and special treatment needed

Information on clinical testing	No recommendation given.
Medical monitoring for delayed effects	No information required.
Specific details on antidotes	No specific antidote known.
Contraindications	Not relevant.
Separate first aid equipment	Not relevant.
Other Information	None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is non-combustible. Water spray, dry powder or carbon dioxide. Extinguishing measures to suit local situation and surroundings. Alcohol resistant foam.
Improper extinguishing media	Water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The product is non-combustible. If heated, harmful vapours may be formed.
Hazardous combustion products	Carbon dioxide (CO ₂). Carbon monoxide (CO).

5.3. Advice for firefighters

Fire fighting procedures	No specific fire fighting procedure given.
Personal protective equipment	No recommendation given.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	No recommendation given.
Personal precautions	Avoid contact with eyes and prolonged skin contact.

6.1.1. For non-emergency personnel

Protective equipment	No recommendation given.
Emergency procedures	No recommendation given.

6.1.2. For emergency responders

For emergency responders	No recommendation given.
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6.2. Environmental precautions

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning Flush away small spillages with plenty of water. Large quantities should not be discharged into the drain but removed with absorbing material.

Containment No recommendation given.

6.4. Reference to other sections

Other instructions cf. section 1.4 for first-aid contact information, and section 13 for waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Avoid contact with skin and eyes.

Protective Measures

Measures To Prevent fire Not relevant.

Measures to prevent aerosol and dust generation Not relevant.

Measures to protect the environment Not relevant.

Advice on general occupational hygiene Provide access to washing facilities incl. soap, skin cleanser, barrier cream and fatty cream.

7.2. Conditions for safe storage, including any incompatibilities

Storage Store in tightly closed original container.

Special risks and properties Not known.

Technical measures and storage conditions No recommendation given.

Packaging compatibilities Use original containers, other containers only with proved resistant materials.

Requirements for storage rooms and vessels No recommendation given.

Further information on storage conditions (UK) No recommendation given.

7.3. Specific end use(s)

Recommendations cf. section 1.2

Specific use(s) No recommendation given.

Specific end users

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure controls

Exposure limit values

Component name	Identification	Value	Year
Formaldehyde ...%	CAS no.: 50-00-0	8 h.: 2 ppm	2007
	EC no.: 200-001-8	8 h.: 2,5 mg/m3	
	Index no.: 605-001-00-5	15 min.: 2 ppm	
	Synonyms: Formaldehyde	15 min.: 2,5 mg/m3	
2,2'-Oxybisethanol	CAS no.: 111-46-6	8 h.: 23 ppm	2007
	EC no.: 203-872-2	8 h.: 101 mg/m3	
	Index no.: 603-140-00-6		
	Synonyms: 2,2'-Oxydiethanol		

Exposure limits**Biological limits****DNEL / PNEC**

Exposure guidelines

Recommended monitoring procedure: Formaldehyde:
 OSHA ID-205: Formaldehyde in workplace atmospheres.
 Diethylenglycol:
 NIOSH 5523: Glycols.
 OSHA PV2024: Ethylene glycol.

Appropriate environmental exposure control

Measures on consumer use of the chemical

No recommendation given.

8.2. Exposure controls**Safety signs**

Recommended monitoring procedures

No recommendation given.

Eye / face protection

Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

Reference to relevant standard

EN 166

Skin protection

Hand protection

Gloves are recommended for prolonged use.

Suitable gloves type

Nitrile gloves are recommended.

Reference to relevant standard

EN 374

Unsuitable materials

Leather or textile.

Breakthrough time

>480 min

Thickness of glove material

0,4 mm

Additional hand protection measures

No recommendation given.

Skin protection (other than of the hands)

No recommendation given.

Respiratory protection

Respiratory protection

Respiratory protection not required.

Thermal hazards

Thermal hazards

not relevant

Environmental exposure controls

Environmental exposure controls

Not relevant.

Other Information

Other Information

Use appropriate skin cream to prevent drying of skin.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state

Coloured liquid.

Colour

Misc. colours.

Odour

Mild.

Melting point/melting range

Value: < 0 °C

Boiling point / boiling range

Value: ≥ 100 °C

Flash point

Value: > 140 °C

Specific gravity	Value: > 1 g/cm ³
Solubility in water	unlimited miscible

9.2. Other information

Other physical and chemical properties

Physical and chemical properties	No data recorded.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No hazardous reactions under regular storage and handlings conditions known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time.
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10.5. Incompatible materials

Materials to avoid	Avoid alkalis, strong acids and heat.
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10.6. Hazardous decomposition products

Hazardous decomposition products	When heated, vapours/gases hazardous to health may be formed.
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SECTION 11: Toxicological information

Toxicological Information:

LD50 oral	Value: ≥ 16500 mg/kg bw Test animal species: rat
LC50 inhalation	Value: ≥ 4.6 mg/L Test animal species: rat Duration: 4 h Comments: Weight of Evidence / aerosol 4.4-4.6 mg/l
LDLo dermal	Value: ≥ 13300 mg/kg bw Test animal species: rabbit Comments: Weight of Evidence

Components' toxicological data

Other information regarding health hazards

General	This product has low toxicity. Only large volumes may have adverse impact on human health. May cause sensitisation by skin contact.
Inhalation	No specific health warnings noted.
Skin contact	No specific health warnings noted.
Eye contact	May cause temporary eye irritation.
Ingestion	No known chronic or acute health risks.
Chronic effects	No information required.
Aspiration hazard	Not applicable.
Sensitisation	Sensitization of the skin.
Carcinogenicity	No specific health warnings noted.
Teratogenic properties	No specific health warnings noted.
Reproductive toxicity	No specific health warnings noted.
Mutagenicity	No specific health warnings noted.
Toxicokinetics	No data recorded.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic, fish	Value: ≥ 75200 mg/l Method of testing: Methode Lake Superior Center Fish, species: Pimephales promelas Duration: 96 Stunden
Acute aquatic, algae	Value: ≥ 2700 mg/l Method of testing: Cell growth inhibition test Algae, species: Scendesmus quadricauda Duration: 8 Tage
Acute aquatic, Daphnia	Value: ≥ 10000 mg/l Method of testing: DIN 38412/11 Daphnia, species: Daphnaia magna Duration: 24 Stunden

Components' toxicological data

Other ecological information

Ecotoxicity	Not classified as dangerous to the environment. However, the product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.
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12.2. Persistence and degradability

Comments	No data recorded.
Comments	No data recorded.
Comments	No data recorded.

12.3. Bioaccumulative potential

Bioaccumulative potential	The product contains potentially bioaccumulating substances.
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12.4. Mobility in soil

Mobility	The product is miscible with water. May spread in water systems.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	This product does not contain any PBT or vPvB substances.
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12.6. Other adverse effects

Other adverse effects / Remarks	Slightly hazardous to water due to the content of diethylene glycol.
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SECTION 13: Disposal considerations

EWC waste code	EWC: 161001 aqueous liquid wastes containing dangerous substances
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13.1. Waste treatment methods

Specify the appropriate methods of disposal	Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction.
Other Information	Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. Recommended waste code according to Waste Catalogue (EWC): 15 01 08* Packaging containing residues of or contaminated by dangerous substances.

SECTION 14: Transport information

14.1. UN number

Comment	Not relevant.
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14.2. UN proper shipping name

14.3. Transport hazard class(es)

Comment	Not relevant.
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14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

Special precautions for user	No recommendation given.
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Other applicable information.	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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SECTION 15: Regulatory information

EC label	Yes
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-directive	Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No. 1907/2006 Regulation (EC) No. 453/2010
References (laws/regulations)	National regulations (UK): The product is not due to labelling according to UK regulations. The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242). The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895). Other UK regulations and guidances: Health and Safety at Work Act 1974. The Management of Health and Safety at Work regulations 1992. L5 Control of substances hazardous to Health. The Control of Substances Hazardous to Health Regulations 2002. Approved codes of practice and guidance. Guidance Note EH40 – Occupational Exposure Limits. BS EN ISO 10882-1:2001 – health and safety in welding and allied processes – sampling of air-borne particles and gases in the operator's breathing zone – part 1: sampling of airborne particles.

15.2. Chemical safety assessment

chemical safety assessment has been carried out	No
CSR required	No
CSR location	No information is required.

SECTION 16: Other information

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	Acute tox. 4; H302; Calculation method
List of relevant R phrases (under headings 2 and 3).	R22 Harmful if swallowed. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R34 Causes burns. R40 Limited evidence of a carcinogenic effect. R43 May cause sensitization by skin contact.
List of relevant H-phrases (Section 2 and 3).	H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes Severe skin burns and eye damage. H317 May cause an allergic skin reaction. H331 Toxic if inhaled. H351 Suspected of causing cancer
Sources of key data used to	European chemical Substances Information System (ESIS), Internet:

compile the safety data sheet	<p>http://ecb.jrc.it/esis Information System on Hazardous Substances of the German Social Accident Insurance (GESTIS), Internet: http://www.hvbg.de/d/bia/gestis/stoffdb/index.html.</p>
Information which has been added, deleted or revised	Adoption to Annex II of the Reg. (EC) No. 1907/2006 (REACH) in the version of the Reg. (EC) No. 453/2010, and Reg. (EC) No. 1272/2008.
Supplier's notes	The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
User notes	The Information in this safety data sheet describes the safety requirements of the product and is based on the present knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. However the information does not represent guaranteed properties of the product, and cannot be transferred to other products.
URL for technical data	http://www.laco-germany.de/katalog/index.php/cat/c21_Stem...
Responsible for safety data sheet	LACO OFFICE PRODUCTS Finke GmbH
Prepared by	Fit4REACH - Likedeelers GmbH Dr. Wolfgang Pahlmann Hallbergstrasse 10 40239 Düsseldorf Germany E-Mail: sds@fit4reach.eu