

## Safety Data Sheet

### According to 91/155 EEC

Printing date 18.09.2007

Revision: 18.09.2007








### 1 Identification of substance:

- **Product details:**
- **Trade name:** LF-Coating Comp.A
- **Application of the substance / the preparation** Adhesives
- **Manufacturer/Supplier:**  
Forbo Siegling Pty. Ltd.  
Unit 150/45 Gilby Road,  
Mount Waverley Vic 3149  
Ph.: 1300137933  
Fax: 1300137944
- **Information department:**  
Chemical Laboratory  
Email: Claudius.Hayduk@forbo.com
- **Emergency information:** ++49 (0) 511-6704 0

### 2 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 78-93-3 EINECS: 201-159-0	butanone	 Xi,  F; R 11-36-66-67	60-80%
CAS: 141-78-6 EINECS: 205-500-4	ethyl acetate	 Xi,  F; R 11-36-66-67	2.5-10%
CAS: 108-88-3 EINECS: 203-625-9	toluene	 Xn,  Xi,  F; R 11-38-48/20-63-65-67	2.5-10%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

- **Hazard description:**



Xn Harmful  
F Highly flammable

- **Information pertaining to particular dangers for man and environment**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. Has a narcotizing effect.

R 11 Highly flammable.

R 36 Irritating to eyes.

R 63 Possible risk of harm to the unborn child.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

- **Classification system**

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

### 4 First aid measures

- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Generally the product does not irritate the skin.
- **After eye contact**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor** MSDB

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### 5 Fire fighting measures

- **Suitable extinguishing agents**  
Alcohol resistant foam



CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

- **For safety reasons unsuitable extinguishing agents**  
Water.  
Water with full jet.
- **Protective equipment:** Wear self-contained respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:**



Wear protective equipment. Keep unprotected persons away.

- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.  
Prevent seepage into sewage system, workpits and cellars.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

### 7 Handling and storage

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

**78-93-3 butanone**

NES ( )	Short-term value: 890 mg/m <sup>3</sup> , 300 ppm
	Long-term value: 445 mg/m <sup>3</sup> , 150 ppm

**141-78-6 ethyl acetate**

NES ( )	Short-term value: 1440 mg/m <sup>3</sup> , 400 ppm
	Long-term value: 720 mg/m <sup>3</sup> , 200 ppm

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**108-88-3 toluene**

NES ()	Short-term value: 565 mg/m <sup>3</sup> , 150 ppm Long-term value: 377 mg/m <sup>3</sup> , 100 ppm
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- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment**

- **General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

- **Breathing equipment:**



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**

Solvent resistant gloves

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Natural rubber, NR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Natural rubber, NR

- **Eye protection:** Tightly sealed goggles.

- **Body protection:** Protective work clothing.

## 9 Physical and chemical properties:

- **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

- **Change in condition**

**Melting point/Melting range:** undetermined

**Boiling point/Boiling range:** 76°C

- **Flash point:** -4°C

- **Ignition temperature:** 460.0°C

- **Self igniting:** Product is not selfigniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

**Lower:** 1.8 Vol %

**Upper:** 11.5 Vol %

- **Vapour pressure at 20°C:** 89.0 hPa

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· <b>Density at 20°C:</b>	0.94548 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	79.9 %
· <b>Solids content:</b>	18.3 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** No dangerous decomposition products known

### 11 Toxicological information

- **Acute toxicity:**

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

**108-88-3 toluene**

Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 14000 mg/kg (rab)
Inhalative	LC50/4 h	31 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant

### 12 Ecological information:

- **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.



Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

### 13 Disposal considerations

- **Product:**

- **Recommendation**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 04 09 waste adhesives and sealants containing organic solvents or other dangerous substances

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

#### · Land transport ADR/RID (cross-border)



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 33
- **UN-Number:** 1133
- **Packaging group:** II
- **Label** 3
- **Description of goods:** 1133 KLEBSTOFFE, Sondervorschrift 640D

#### · Maritime transport IMDG:



- **IMDG Class:** 3
- **UN Number:** 1133
- **Label** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-D
- **Marine pollutant:** No
- **Propper shipping name:** ADHESIVES

#### · Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1133
- **Label** 3
- **Packaging group:** II
- **Propper shipping name:** ADHESIVES

### 15 Regulations

#### · Australian Inventory of Chemical Substances

78-93-3	butanone
141-78-6	ethyl acetate
108-88-3	toluene

#### · Markings according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

#### · Code letter and hazard designation of product:



Xn Harmful  
F Highly flammable

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- **Hazard-determining components of labelling:**

toluene

- **Risk phrases:**

- 11 Highly flammable.
- 36 Irritating to eyes.
- 63 Possible risk of harm to the unborn child.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

- **Safety phrases:**

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe fumes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37 Wear suitable protective clothing and gloves.
- 60 This material and its container must be disposed of as hazardous waste.

- **National regulations**

- **Technical instructions (air):**

Class	Share in %
II	64,0
NK	15,9

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

### 16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**

- 11 Highly flammable.
- 36 Irritating to eyes.
- 38 Irritating to skin.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 63 Possible risk of harm to the unborn child.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

- **Department issuing MSDS:** Chemical Laboratory

- **Contact:**

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