



**GENESYS INTERNATIONAL LTD**

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**MATERIAL SAFETY DATA SHEET**

**Genesys LF**

**November 2001**

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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

- 1.1 Commercial Name:** Genesys LF
- 1.2 Chemical Identity:** Membrane Antiscalant
- 1.3 Company Name:** Genesys International Limited  
Genesys House  
204 Lent Rise Road  
Burnham  
Bucks SL1 7AB, United Kingdom
- 1.4 Emergency Contact:** Tel 44 (0) 1628 667 605

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**2. COMPOSITION** *Aqueous solution of an organo-phosphorus compound*

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**3. HAZARDS IDENTIFICATION**

- SUPPLY:** *Not classified as hazardous*
- TRANSPORTATION:** *Not classified as hazardous*

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**4. FIRST-AID MEASURES**

- 4.1 Eye Contact:** *Irrigate thoroughly with clean water for at least 15 minutes. Seek medical advice should any irritation persist.*
- 4.2 Skin Contact:** *Wash affected areas immediately with clean water. Remove contaminated clothing.*
- 4.3 Inhalation:** *Not applicable*
- 4.4 Ingestion:** *Wash out mouth thoroughly and drink plenty of water. Do not induce vomiting.*

5. **FIRE-FIGHTING MEASURES** – *Not applicable, product aqueous based*

5.1 **Extinguishing Media –**  
**Water Mist :**  
**Foam :**  
**CO<sub>2</sub> :**  
**Dry Powder:**

5.2 **Special Exposure Hazards:**

5.3 **Special Protective Equipment for Fire-fighters:**

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6. **ACCIDENT RELEASE MEASURES**

6.1 **Personal Precautions :** *Avoid contact with skin and eyes*

6.2 **Environmental Precautions :** *Minimise product flowing to drains and water courses*

6.3 **Clean-up methods :** *Contain and absorb on to sand or other inert material. Dispose of in accordance with local authority regulations*

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7. **STORAGE AND HANDLING**

7.1 **Storage :** *Cool conditions*

7.2 **Handling :** *Avoid contact with skin and eyes*

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8. **EXPOSURE CONTROLS/PROTECTION**

8.1 **Equipment Design/Technical Protective Measures :**

8.2 **Exposure Control Limits :**

8.3 **Personal Protection**

8.3.1 **Respiratory Protection** *Not required*

8.3.2 **Hand Protection** *Wear PVC gloves*

8.3.3 **Eye Protection** *Wear goggles/glasses*

8.3.4 **Skin Protection** *Wear overalls*

8.3.5 **Industrial Hygiene** *Work in accordance with good industrial practise of the chemical industry.*

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 **Appearance:** *Pale yellow clear liquid*
- 9.2 **Odour:**
- 9.3 **Typical pH value:** *9.8 – 10.2*
- 9.4 **Viscosity:**
- 9.5 **Freezing Point:** *<-5°C*
- 9.6 **Boiling Point:** *Not applicable*
- 9.7 **Melting Point:** *Not applicable*
- 9.8 **Flash Point:** *Not applicable*
- 9.9 **Auto Flammability:** *Not applicable*
- 9.10 **Explosivity:** *Not applicable*
- 9.11 **Vapour Pressure:** *As water*
- 9.12 **Specific Gravity at 20°C:** *1.32 – 1.34*
- 9.13 **Solubility:** *Miscible in water*
- 9.14 **Partition Coefficient:**
- 9.15 **Other Data:**
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## 10. STABILITY AND REACTIVITY

- 10.1 **Conditions to Avoid:** *Contact with oxidising chemicals*
- 10.2 **Materials to Avoid:** *Aluminium and zinc*
- 10.3 **Hazardous Decomposition Products:**
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## 11. TOXICOLOGICAL INFORMATION

- 11.1 **Acute Oral Toxicity (LD<sub>50</sub>) in rats:** *>30,000 mg/kg*
- 11.2 **Eye Irritation tested in Rabbits:** *Slight irritation*
- 11.3 **Skin Irritation tested in Rabbits:** *Non irritating*
- 11.4 **Other Information:**

**12. ECOLOGICAL INFORMATION**

*Avoid release to drain*

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**13. DISPOSAL CONSIDERATIONS**

*Absorb spillage onto sand or similar inert substance and dispose of as a solid waste in accordance with local regulations – authorised waste treatment plant*

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**14. TRANSPORT INFORMATION                      *Not classified as hazardous***

**14.1 IMDG:**

**14.2 RID/ADR:**

**14.3 MARPOL:**

**14.4 UN No.:**

**14.5 IATA:**

**14.6 TREM CARD:**

**14.7 Other Information**

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**15. REGULATORY INFORMATION                      *Not classified as hazardous***

**15.1 Classification and Labelling according to EC Directives 67/548:**

**15.2 Risk Phrases:**

**15.3 Safety Phrases:**     *S24/25: Avoid contact with eyes and skin*

**15.4 Product Contains:** *Aqueous solution of an organo-phosphorus compound*

***Recipients are reminded to refer also to National measures that may be relevant.***

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**16. OTHER INFORMATION**

*Wash out drums thoroughly with water prior to disposal*

***This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any and all legal regulations. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.***