

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 22.07.2009

Revision: 22.07.2009

**1 Identification of the substance/preparation and of the company/undertaking**

· **Product details**

· **Trade name:** FYREWASH F3

· **Article number:** 73900

· **Application of the substance / the preparation** Industrial cleaner

· **Manufacturer:**

Romaco B.V.

Edisonstraat 11

NL-3261 LD Oud Beijerland

The Netherlands

Tel.: +31 186 615244

Fax.: +31 186 619385

Email: info@rochem.nl

· **Further information obtainable from:** Product safety department.

· **Information in case of emergency:**

EUROPE, RUSSIA, AUSTRALIA, AFRICA: + 44 1962 890089

AMERICAS: + 1 239 772 5911

MIDDLE EAST: + 971 6 5578177

FAR EAST: + 65 6 2995138

**2 Hazards identification**

· **Hazard description:**



Xi Irritant

· **Information concerning particular hazards for human 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.

R 36 Irritating to eyes.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **GHS label elements**



Warning







H319 - Causes serious eye irritation.

**3 Composition/information on ingredients**

· **Chemical characterization**

· **Description:** Detergent composition

· **Dangerous components:**

|                                    |                           |  |         |
|------------------------------------|---------------------------|--|---------|
|                                    | Non ionic surfactants     |  Xn,  Xi; R 22-41<br>Danger:  3.3/1<br>Warning:  3.1.0/4 | 10-25 % |
| CAS: 112-34-5<br>EINECS: 203-961-6 | 2-(2-butoxyethoxy)ethanol |  Xi; R 36<br>Warning:  3.3/2   | 2.5-10% |

· **Ingredients according to detergents guideline:**

|                       |         |
|-----------------------|---------|
| Non ionic surfactants | 5 - 15% |
|-----------------------|---------|

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

### 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:** Rinse out mouth and then drink plenty of water.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Person-related safety precautions:** Particular danger of slipping on leaked/spilled product.
- **Measures for environmental protection:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Dispose of the material collected according to regulations.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Store in cool, dry place in tightly closed receptacles.  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

### 8 Exposure controls/personal protection

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

· **Ingredients with limit values that require monitoring at the workplace:**

112-34-5 2-(2-butoxyethoxy)ethanol

|                     |  |
|---------------------|--|
| WEL (Great Britain) | Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm<br>Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm |
| IOELV (EU)          | Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm<br>Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm |

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- **Additional information:** The lists valid during the making 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.  
 Avoid contact with the eyes.  
 Avoid contact with the eyes and skin.
- **Respiratory protection:**  
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves**  
 PVC or PE gloves  
 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.
- **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.
- **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

#### · General Information

|                |                |
|----------------|----------------|
| <b>Form:</b>   | Fluid          |
| <b>Colour:</b> | Colourless     |
| <b>Odour:</b>  | Characteristic |

#### · Change in condition

|                                     |       |
|-------------------------------------|-------|
| <b>Melting point/Melting range:</b> | -15°C |
| <b>Boiling point/Boiling range:</b> | 104°C |

· **Flash point:** > 100°C

· **Ignition temperature:** 225°C

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

· **Danger of explosion:** Product does not present an explosion hazard.

#### · Explosion limits:

|               |           |
|---------------|-----------|
| <b>Lower:</b> | 0.7 Vol % |
| <b>Upper:</b> | 5.9 Vol % |

· **Vapour pressure at 20°C:** 23 hPa

· **Density at 20°C:** 1 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:**

Fully miscible.

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|                                 |                       |
|---------------------------------|-----------------------|
| · <b>pH-value at 20°C:</b>      | 7.3                   |
| · <b>Viscosity:</b>             |                       |
| <b>Dynamic at 20°C:</b>         | 3 mPas                |
| · <b>Solvent content:</b>       |                       |
| <b>Organic solvents:</b>        | 9.6 %                 |
| <b>Water:</b>                   | 75.6 %                |
| <b>VOC (EU, 1999/13/EC)</b>     | 8.20 %                |
| <b>VOC (USA, EPA Method 24)</b> | 82.0 g/l / 0.68 lb/gl |

### 10 Stability and reactivity

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

### 11 Toxicological information

- **Acute toxicity:**

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

|        |      |                    |
|--------|------|--------------------|
| Oral   | LD50 | >10000 mg/kg (rat) |
| Dermal | LD50 | >10000 mg/kg (rat) |

#### Alcholethoxylate

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | > 2000 mg/kg (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

- **Information about elimination (persistence and degradability):** Easily biodegradable
- **General notes:**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request.  
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.

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**13 Disposal considerations**

- **Product:**
- **Recommendation**  
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

|                                   |  |
|-----------------------------------|--|
| · <b>European waste catalogue</b> |  |
| 15 01 02                          | plastic packaging                        |
| 20 03 99                          | municipal wastes not otherwise specified |

- **Uncleaned packaging:**
- **Recommendation:** Packaging may be reused or recycled after cleaning.
- **Recommended cleansing agents:**  
Water  
Water, if necessary together with cleansing agents.

**14 Transport information**

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **UN "Model Regulation":** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

**15 Regulatory information**

- **Labelling 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:**  
Xi Irritant
- **Risk phrases:**  
36 Irritating to eyes.
- **Safety phrases:**  
23 Do not breathe vapour/spray .  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
36/39 Wear suitable protective clothing and eye/face protection.  
60 This material and its container must be disposed of as hazardous waste.

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**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.*

- **Department issuing MSDS:** Environment protection department.
- **Contact:** Mr. Hans de Kruijff
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
  - ICAO: International Civil Aviation Organization
  - ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
  - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
  - VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)
  - VOC: Volatile Organic Compounds (USA, EU)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent

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