

## 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 F2

· **Article number:** 73790

· **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:**



Xn Harmful

· **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.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

· **Classification system:**

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

· **GHS label elements**



**Danger**

H304 - May be fatal if swallowed and enters airways.



**Warning**

H319 - Causes serious eye irritation.

H412 - Harmful to aquatic life with long lasting effects.

· **Prevention:**

P273 Avoid release to the environment.

· **Response:**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

· **Storage:**

P405 Store locked up.

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· **Disposal:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3 Composition/information on ingredients

· **Chemical characterization**· **Description:** Cleansing agent· **Dangerous components:**

	Non ionic surfactants ☒ Xn, ☒ Xi; R 22-41 Danger: ☒ 3.3/1 Warning: ☒ 3.1.O/4	2,5-10 %
	Non ionic surfactants ☒ Xi; R 36/38 Warning: ☒ 3.2/2, 3.3/2	2,5-10 %
CAS: 68956-56-9	Terpene Hydrocarbons ☒ Xn, ☒ N; R 51/53-65 Danger: ☒ 3.10/1 ☒ 4.1.C/2	10-25%
CAS: 34590-94-8 EINECS: 252-104-2	(2-methoxymethylethoxy)propanol	2,5-10%
CAS: 112-34-5 EINECS: 203-961-6	2-(2-butoxyethoxy)ethanol ☒ Xi; R 36 Warning: ☒ 3.3/2	2,5-10%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol ☒ Xn, ☒ Xi; R 20/21/22-36/38 Warning: ☒ 3.1.O/4, 3.1.D/4, 3.1.I/4, 3.2/2, 3.3/2	≤ 2,5%

· **Ingredients according to detergents guideline:**

Non ionic surfactants

5 - 15%

· **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:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

· **Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.· **Protective equipment:** No special measures required.

### 6 Accidental release measures

· **Person-related safety precautions:**

Ensure adequate ventilation

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Wear protective clothing.

**· Measures for environmental protection:**

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**· Measures for cleaning/collecting:**

Clean the affected area with water.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

### 7 Handling and storage

**· Handling:****· Information for safe handling:**

Use only in well ventilated areas.

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:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Protect from frost.

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:****34590-94-8 (2-methoxymethylethoxy)propanol**

WEL (Great Britain)	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm
	Sk

IOELV (EU)	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm
	Skin

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

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

**111-76-2 2-butoxyethanol**

WEL (Great Britain)	Short-term value: 50 ppm
	Long-term value: 25 ppm

IOELV (EU)	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm
	Long-term value: 98 mg/m <sup>3</sup> , 20 ppm
	Skin

**· Additional information:** The lists valid during the making were used as basis.

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- **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:**  
Not necessary if room is well-ventilated.  
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:**  
Solvent resistant gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- **Material of gloves**  
Plastic 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>	Light yellow
<b>Odour:</b>	Characteristic

### · Change in condition

<b>Melting point/Melting range:</b>	<0°C
<b>Boiling point/Boiling range:</b>	100°C

<b>Flash point:</b>	> 62°C
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<b>Ignition temperature:</b>	225°C
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<b>Self-igniting:</b>	Product is not selfigniting.
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<b>Danger of explosion:</b>	Product does not present an explosion hazard.
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### · Explosion limits:

<b>Lower:</b>	0.6 Vol %
<b>Upper:</b>	8.0 Vol %

<b>Vapour pressure at 20°C:</b>	23 hPa
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<b>Density at 20°C:</b>	0.98 g/cm <sup>3</sup>
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· **Solubility in / Miscibility with water:** Fully miscible.

· **pH-value at 20°C:** 7.8

· **Viscosity:**  
Dynamic at 20°C: 16 mPas

· **Solvent content:**  
Organic solvents: 30.3 %  
Water: 59.0 %  
VOC (EU, 1999/13/EC) 30.26 %

VOC (USA, EPA Method 24) 296.5 g/l / 2.47 lb/gal

### 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:**

**68956-56-9 Terpene Hydrocarbons**

Dermal	LD50	3540 mg/kg (rat)
		5000 mg/kg (rabbit)

- **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
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **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.  
Harmful to aquatic organisms

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### 13 Disposal considerations

- **Product:**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

15 01 10	packaging containing residues of or contaminated by dangerous substances
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- **Uncleaned packaging:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper 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":** -

### 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:**  
Xn Harmful
- **Hazard-determining components of labelling:**  
Terpene Hydrocarbons
- **Risk phrases:**  
36 Irritating to eyes.  
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
65 Harmful: may cause lung damage if swallowed.
- **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.  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.  
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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- **National regulations:**
- **Waterhazard 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.*

- **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*