

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 SB

· **Article number:** 73789

· **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

N Dangerous for the environment

· **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.

Has a narcotizing effect.

R 36/38 Irritating to eyes and skin.

R 40 Limited evidence of a carcinogenic effect.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 67 Vapours may cause drowsiness and dizziness.

· **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.

H351 - Suspected of causing cancer.



Warning

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.



H411 - Toxic to aquatic life with long lasting effects.

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*EUH070 - Toxic by eye contact.***Prevention:**

- P201 Obtain special instructions before use.*
- P202 Do not handle until all safety precautions have been read and understood.*
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.*
- P264 Wash thoroughly after handling.*
- P271 Use only outdoors or in a well-ventilated area.*
- P273 Avoid release to the environment.*
- P280 Wear protective gloves/protective clothing/eye protection/face protection.*
- P281 Use personal protective equipment as required.*

Response:

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.*
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.*
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*
- P308+P313 IF exposed or concerned: Get medical advice/attention.*
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.*
- P321 Specific treatment (see on this label).*
- P331 Do NOT induce vomiting.*
- P332+P313 If skin irritation occurs: Get medical advice/attention.*
- P362 Take off contaminated clothing and wash before reuse.*
- P391 Collect spillage.*

Storage:

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.*
- P405 Store locked up.*

Disposal:

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

3 Composition/information on ingredients

Chemical characterization**Description:**

Solvent mixture with additives
Cleansing agent

Dangerous components:

	Non ionic surfactants Xn, Xi; R 22-41 Danger: 3.3/1 Warning: 3.1.0/4	2.5-10 %
CAS: 64742-94-5 EINECS: 265-198-5	Solvent naphtha, heavy arom. Xn, N; R 51/53-65-66-67 Danger: 3.10/1	25-50%
CAS: 107-41-5 EINECS: 203-489-0	2-methylpentane-2,4-diol Xi; R 36/38 Warning: 3.2/2, 3.3/2	2.5-10%
CAS: 102-71-6 EINECS: 203-049-8	2,2',2''-nitrilotriethanol Xn, Xi; R 36-40 Warning: 3.6/2; 3.3/2	2.5-10%

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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	2.5-10%
CAS: 112-80-1 EINECS: 204-007-1	oleic acid, pure ☒ Xi; R 36/37/38 Warning: ⚠ 3.2/2, 3.3/2, 3.8/3	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:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **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:**
Foam
Fire-extinguishing powder
Water haze
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:**
Ensure adequate ventilation
Keep away from ignition sources.
- **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:**
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:**
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.

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- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
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:**

107-41-5 2-methylpentane-2,4-diol

WEL (Great Britain)	Short-term value: 123 mg/m ³ , 25 ppm
	Long-term value: 123 mg/m ³ , 25 ppm

111-76-2 2-butoxyethanol

WEL (Great Britain)	Short-term value: 50 ppm
	Long-term value: 25 ppm
IOELV (EU)	Sk
	Short-term value: 246 mg/m ³ , 50 ppm
	Long-term value: 98 mg/m ³ , 20 ppm
	Skin

- **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 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



Protective 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.

- **Not suitable are gloves made of the following materials:** Leather gloves

- **Eye protection:**



Tightly sealed goggles

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· **Body protection:** Use protective suit.

9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	Light yellow
Odour:	Characteristic

· Change in condition

Melting point/Melting range:	< -20°C
Boiling point/Boiling range:	185°C

· **Flash point:** 65°C· **Ignition temperature:** 240°C· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower:	0.6 Vol %
Upper:	7.0 Vol %

· **Vapour pressure at 20°C:** 23 hPa· **Density at 20°C:** 0.955 g/cm³· **Solubility in / Miscibility with water:** Dispersible.· **pH-value at 20°C:** 8.5

· Viscosity:

Dynamic at 20°C:	5 mPas
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· Solvent content:

Organic solvents:	58.8 %
Water:	12.9 %
VOC (EU, 1999/13/EC)	48.80 %

VOC (USA, EPA Method 24)	466.0 g/l / 3.89 lb/gl
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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:

102-71-6 2,2',2''-nitritotriethanol

Oral	LD50	8000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
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:** Toxic for 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.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

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 04	metallic packaging
15 01 10	packaging containing residues of or contaminated by dangerous substances

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

14 Transport information

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



- **ADR/RID class:** 9 (M6) Miscellaneous dangerous substances and articles.
- **Danger code (Kemler):** 90
- **UN-Number:** 3082
- **Packaging group:** III
- **Hazard label** 9

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- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha, Contains Alkyl(C3-C5) benzenes, 1,2,4-trimethylbenzene)

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **EMS Number:** F-A,S-F
- **Marine pollutant:** Yes
Symbol (fish and tree)
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha, Contains Alkyl(C3-C5) benzenes, 1,2,4-trimethylbenzene)

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



- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3082
- **Label:** 9
- **Special marking:** Symbol (fish and tree)
- **Packaging group:** III
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha, Contains Alkyl(C3-C5) benzenes, 1,2,4-trimethylbenzene)

- **UN "Model Regulation":**
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
- **Environmental hazards:** Product contains environmentally hazardous substances

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
N Dangerous for the environment
- **Hazard-determining components of labelling:**
Solvent naphtha, heavy arom.
2,2',2''-nitrioltriethanol
- **Risk phrases:**
36/38 Irritating to eyes and skin.
40 Limited evidence of a carcinogenic effect.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
67 Vapours may cause drowsiness and dizziness.
- **Safety phrases:**
23 Do not breathe vapour/spray .
25 Avoid contact with eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
51 Use only in well-ventilated areas.

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- 57 Use appropriate container to avoid environmental contamination.
 60 This material and its container must be disposed of as hazardous waste.
 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

· **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