

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.11.2019

Version number 1

Revision: 10.11.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier:

Trade name: Fyrewash F2 RTU

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Product category: PC35 Washing and cleaning products (including solvent based products)

Application of the substance / the mixture: Industrial cleaner

1.3 Details of the supplier of the safety data sheet:

Manufacturer / Importer / Supplier:

Romaco BV

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: Last edition of Material Safety Data Sheet on: www.rochem.nl

1.4 Emergency telephone number:

Europe, Middle East & Africa: +44 1865 407333

Americas: +1 215 207 0061

Canada: +1 800 579 7421 (Toll Free)

United States: +1 866 928 0789 (Toll Free)

East/South East Asia: +65 3158 1412

Australia: +61 18000 74234 (Toll Free) acces from Austalia only

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008: The product is classified and labelled according to the CLP regulation.

Hazard pictograms: GHS07

Signal word: Warning

Hazard-determining components of labelling:

Terpinolene

Hazard statements:

H317 May cause an allergic skin reaction.

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P272 Contaminated work clothing should not be allowed out of the workplace.

P321 Specific treatment (see on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

2.3 Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures:

Description: Cleansing agent

(Contd. on page 2)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.11.2019

Version number 1

Revision: 10.11.2019

Trade name: Fyrewash F2 RTU

Components:		(Contd. of page 1)
CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60	Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit	≤2.5%
CAS: 586-62-9 EINECS: 209-578-0 Reg.nr.: 01-2119982325-32	Terpinolene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	≤2.5%
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44	2-(2-butoxyethoxy)ethanol ⚠ Eye Irrit. 2, H319	≤2.5%
Ingredients according to detergents regulation (EC nr. 648/2004):		
non-ionic surfactants		<5%

Additional information: For the wording of the listed hazard phrases See section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

General information:

Persons, providing assistance, should avoid exposure and danger for themselves or others.

In case of irregular breathing or respiratory arrest provide artificial respiration.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Take off contaminated clothing immediately and wash the skin with plenty of water (possibly showering).

After eye contact:

If possible, remove contact lenses.

Rinse opened eye for several minutes (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

After ingestion:

Do not induce vomiting; call for medical help immediately.

Rinse mouth with plenty of water.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

CO₂, powder, foam or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters:

Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Wear protective clothing.

6.2 Environmental precautions:

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

Remainder dilute with plenty of water.

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

6.3 Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.11.2019

Version number 1

Revision: 10.11.2019

Trade name: Fyrewash F2 RTU

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. of page 2)

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Use only in well ventilated areas (eg natural ventilation).
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:
Storage:

Requirements to be met by storerooms and tanks: 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.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see section 7.

8.1 Control parameters:
Ingredients with limit values that require monitoring at the workplace:
34590-94-8 Dipropylene glycol monomethyl ether

WEL (Great Britain)	Long-term value: 308 mg/m ³ , 50 ppm Sk
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IOELV (EU)	Long-term value: 308 mg/m ³ , 50 ppm Skin
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112-34-5 2-(2-butoxyethoxy)ethanol

WEL (Great Britain)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
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DNEL (EU)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
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IOELV (EU)	Short-term value: 101.2 mg/m ³ , 15 ppm Long-term value: 67.5 mg/m ³ , 10 ppm
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DNELs
34590-94-8 Dipropylene glycol monomethyl ether

Oral	Long-term - systemic effects	1.67 mg/kg bw/day (Consumer)
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Dermal	Long-term - systemic effects	15 mg/kg bw/day (Consumer) 65 mg/kg bw/day (Worker)
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Inhalative	Long-term - systemic effects	37.2 mg/m ³ (Consumer) 310 mg/m ³ (Worker)
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112-34-5 2-(2-butoxyethoxy)ethanol

Oral	Long-term - systemic effects	1.3 mg/kg bw/day (Worker)
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Dermal	Long-term - systemic effects	20 mg/kg bw/day (Consumer) 10 mg/kg bw/day (Worker)
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Inhalative	Acute - systemic effects	34 mg/m ³ (Worker)
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	Long-term - local effects	67.3 mg/m ³ (Worker)
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	Long-term - systemic effects	34 mg/m ³ (Consumer)
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		67.5 mg/m ³ (Worker)
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	Acute - local effects	50.6 mg/m ³ (Consumer)
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(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.11.2019

Version number 1

Revision: 10.11.2019

Trade name: Fyrewash F2 RTU

(Contd. of page 3)

PNECs
34590-94-8 Dipropylene glycol monomethyl ether

Fresh water	19 mg/l
Marine water	1.9 mg/l
Intermittent releases	190 mg/l
Fresh water sediment	70.2 mg/kg
Marine sediment	7.02 mg/kg
Soil	2.74 mg/kg
Sewage treatment	4,168 mg/l

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

Fresh water	1 mg/l
Marine water	0.1 mg/l
Intermittent releases	3.9 mg/l
STP	200 mg/l
Fresh water sediment	4 mg/kg
Marine sediment	0.4 mg/kg
Soil	0.4 mg/kg

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

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

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:

Use protective gloves to EN ISO 374-1

Only use chemical-protective gloves with CE-labelling of category III.

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

Material of 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.

Gloves made of Nitrile rubber, NBR

Thickness: 0.7mm

Penetration time of glove material:

Permeation: Breakthrough time > 360 min

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

Eye protection:

Use safety glasses that meets the requirements of EN 166; latest versions.

Goggles recommended during refilling

Limitation and supervision of exposure into the environment: Do not allow to enter in surface water or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:
General Information:
Appearance:

Form:	Liquid.
Colour:	Colourless.
Odour:	Characteristic

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.11.2019

Version number 1

Revision: 10.11.2019

Trade name: Fyrewash F2 RTU

(Contd. of page 4)

Odour threshold:	Not determined.
pH-value at 20 °C:	7 - 8
Change in condition	
Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	110 °C
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	0.97 - 0.99 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with:	
Water:	Fully miscible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
9.2 Other information:	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

34590-94-8 Dipropylene glycol monomethyl ether

Oral	LD50	5,135 mg/kg (Rat)
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Dermal	LD50	>19,000 mg/kg (Rabbit)
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112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	5,660 mg/kg (Rat)
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Dermal	LD50	4,000 mg/kg (rbt)
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(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.11.2019

Version number 1

Revision: 10.11.2019

Trade name: Fyrewash F2 RTU

(Contd. of page 5)

9043-30-5 Isotridecylalcohol, ethoxylated

Oral	LD50	>2,000 mg/kg (Rat)
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111-42-2 2,2'-iminodiethanol

Oral	LD50	1,600 mg/kg (Rat)
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Dermal	LD50	12,200 mg/kg (rbt)
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Primary irritant effect:
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization:

May cause an allergic skin reaction.

CMR effects (carcinogenic, mutagenic and reprotoxic):
Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reprotoxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity:
Aquatic toxicity:
34590-94-8 Dipropylene glycol monomethyl ether

NOEC / 21d	≥0.5 mg/l (Daphnia Magna)
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586-62-9 Terpinolene

LC50/96h	0.72 mg/l (Pimephales promelas)
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12.2 Persistence and degradability: Easily biodegradable

12.3 Bioaccumulative potential:
34590-94-8 Dipropylene glycol monomethyl ether

Log Pow/Cow	0.004
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12.4 Mobility in soil: No further relevant information available.

Ecotoxicological effects:
Remark: Harmful to fish

Additional ecological information:
General notes:

Harmful to aquatic organisms

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.

12.5 Results of PBT and vPvB assessment:
PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:
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.

Contaminated packaging:
Recommendation: Packaging may be reused or recycled after cleaning.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 1

Revision: 10.11.2019

Trade name: Fyrewash F2 RTU
Recommended cleansing agents: Water, if necessary together with cleansing agents.

(Contd. of page 6)

SECTION 14: Transport information

14.1 UN-Number: ADR/RID/ADN, IMDG, IATA	Void
14.2 UN proper shipping name: ADR/RID/ADN, IMDG, IATA	Void
14.3 Transport hazard class(es): ADR/RID/ADN, IMDG, IATA Class:	Void
14.4 Packing group: ADR/RID/ADN, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	Yes (P)
14.6 Special precautions for user:	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Not applicable.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:
Directive 2012/18/EU:
Named dangerous substances - ANNEX I: None of the ingredients are listed.

REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. This shall not constitute a guarantee for any properties of the product and shall not establish a legally valid contractual relationship.

Relevant phrases:

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

Department issuing SDS: Environment protection department.

Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation
 ADN: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
 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
 P: Marine Pollutant
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (Division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 10.11.2019

Version number 1

Revision: 10.11.2019

Trade name: Fyrewash F2 RTU

(Contd. of page 7)

LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
EC50: Effective Concentration, 50 percent
IOELVS: Indicative Occupational Exposure Limit Values
mPa.s: millipascal per second
Flam. Liq. 3: Flammable liquids – Category 3
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

GB