

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

Printing date 20.07.2019

Version number 5

Revision: 20.07.2019

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

1.1 Product Identifier:

Trade name: Fyrewash F1 - 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:



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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: GHS08

Signal word: Danger

Hazard-determining components of labelling:

Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclic, < 2% aromates

Hydrocarbons, C10, Aromates, <1% Natphtalene

Hazard statements:

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

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

P331 Do NOT induce vomiting.

P405 Store locked up.

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

2.3 Other hazards:

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures:

Description:

Solvent mixture with additives

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Components		
EC number: 920-107-4 Reg.nr.: 01-2119453414-43	Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclic, < 2% aromates ☠ Asp. Tox. 1, H304	2.5-10%
EC number: 918-811-1 Reg.nr.: 01-2119463583-34	Hydrocarbons, C10, Aromates, <1% Natphtalene ☠ Asp. Tox. 1, H304; ☠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	2.5-10%
CAS: 160875-66-1	Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega hydroxy ☠ Eye Dam. 1, H318	≤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:
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.

After ingestion: If symptoms persist consult doctor.

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:

Foam

Fire-extinguishing powder

Water haze

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

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

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.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire and explosion protection:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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: Store away from oxidising agents.

Further information about storage conditions:

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

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:
Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclic, < 2% aromates

RCP-TGG (EU)	Short-term value: 1200 mg/m ³
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Hydrocarbons, C10, Aromates, <1% Natphtalene

RCP-TGG (EU)	Short-term value: 100 mg/m ³
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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

DNEL (EU)	Short-term value: 101.2 mg/m ³ , 15 ppm
	Long-term value: 67.5 mg/m ³ , 10 ppm

IOELV (EU)	Short-term value: 101.2 mg/m ³ , 15 ppm
	Long-term value: 67.5 mg/m ³ , 10 ppm

IOELV (EU)	Short-term value: 101.2 mg/m ³ , 15 ppm
	Long-term value: 67.5 mg/m ³ , 10 ppm

DNELs
Hydrocarbons, C10, Aromates, <1% Natphtalene

Oral	Long-term - systemic effects	7.5 mg/kg bw/day (Consumer)
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Dermal	Long-term - systemic effects	7.5 mg/kg bw/day (Consumer)
		12.5 mg/kg bw/day (Worker)

Inhalative	Long-term - systemic effects	32 mg/m ³ (Consumer)
		150 mg/m ³ (Worker)

Inhalative	Long-term - systemic effects	32 mg/m ³ (Consumer)
		150 mg/m ³ (Worker)

Inhalative	Long-term - systemic effects	32 mg/m ³ (Consumer)
		150 mg/m ³ (Worker)

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)

Inhalative	Acute - systemic effects	34 mg/m ³ (Worker)
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Inhalative	Long-term - local effects	67.3 mg/m ³ (Worker)
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Inhalative	Long-term - systemic effects	34 mg/m ³ (Consumer)
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Inhalative	Long-term - systemic effects	34 mg/m ³ (Consumer)
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Inhalative	Long-term - systemic effects	67.5 mg/m ³ (Worker)
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Inhalative	Acute - local effects	50.6 mg/m ³ (Consumer)
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Inhalative	Acute - local effects	50.6 mg/m ³ (Consumer)
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PNECs
112-34-5 2-(2-butoxyethoxy)ethanol

Fresh water	1 mg/l
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Marine water	0.1 mg/l
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Intermittent releases	3.9 mg/l
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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:

Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

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

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:

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.

Gloves made of Nitrile rubber, NBR

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: Goggles recommended during refilling

Body protection: Use protective suit.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General Information:

Appearance:

Form:	Fluid
Colour:	Light yellow
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value at 20 °C: 7

Change in condition

Melting point/freezing point:	< -20 °C
Initial boiling point and boiling range:	100 °C

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

Ignition temperature: 210 °C

Decomposition temperature: Not determined.

Explosive properties: 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:	0.98 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.

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Evaporation rate:	Not determined.
Solubility in / Miscibility with:	
Water:	Dispersible.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic at 20 °C:	2 mPas
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	16.9 %
Water:	80.0 %
VOC (EU, 1999/13/EC)	16.8 %
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:

Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclic, < 2% aromates

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	>4,951 mg/l (Rat)

Hydrocarbons, C10, Aromates, <1% Natphtalene

Oral	LD50	>5,000 mg/kg (Rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (Rabbit) (OECD 402)

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

Oral	LD50	5,660 mg/kg (Rat)
Dermal	LD50	4,000 mg/kg (rbt)

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

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:

May be fatal if swallowed and enters airways.

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SECTION 12: Ecological information

12.1 Toxicity:
Aquatic toxicity:
Hydrocarbons, C12-C15, n-alkanes, iso-alkanes, cyclic, < 2% aromates

NOELR/72h 1,000 mg/l (Pseudokirchneriella subcapitata)

Hydrocarbons, C10, Aromates, <1% Natphtalene

NOELR/72h 2.5 mg/l (Pseudokirchneriella subcapitata)

LL50/96h ≥2-≤5 mg/l (Oncorhynchus mykiss)

EL50/48H ≥3-≤10 mg/l (Daphnia Magna)

ErL50/72h 11 mg/l (Pseudokirchneriella subcapitata)

12.2 Persistence and degradability: The contained surfactants are easily biodegradable

Other information: The product is not easily biodegradable.

12.3 Bioaccumulative potential: No further relevant information available.

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

European waste catalogue:

13 08 99* wastes not otherwise specified

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

Recommended cleansing agents: Water, if necessary together with cleansing agents.

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:

No

14.6 Special precautions for user:

Not applicable.

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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Not applicable.
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UN "Model Regulation":	Void
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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:

H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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

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)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Revisions were made in sections marked with *.