

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.07.2019

Version number 3

Revision: 20.07.2019

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

1.1 Product Identifier:

Trade name: FYREWASH F4 SC (Super Concentrate)

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: Product safety department.

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

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

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: GHS05, GHS07, GHS08

Signal word: Danger

Hazard-determining components of labelling:

Amines, coco alkyl, ethoxylated
ethane-1,2-diol
Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega hydroxy

Hazard statements:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P260 Do not breathe dusts or mists.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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

Components:

3.2 Chemical characterisation: Mixtures:

Description: Mixture of substances and non-hazardous additions.		25-50%
Ammonium lauryl sulfate		
⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302		
CAS: 107-21-1	ethane-1,2-diol	10-25%
EINECS: 203-473-3	⚠ STOT RE 2, H373; ⚠ Skin Corr. 1A, H314; ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	
Index number: 603-027-00-1		
Reg.nr.: 01-2119456816-28		
Cocoaminodipropionate triethanolamine		10-25%
⚠ Eye Irrit. 2, H319		
CAS: 160875-66-1	Poly(oxy-1,2-ethanediyl), alpha-(2-propylheptyl)-omega hydroxy	10-25%
⚠ Eye Dam. 1, H318		
CAS: 107-41-5	2-methylpentane-2,4-diol	10-25%
EINECS: 203-489-0	⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319	
Index number: 603-053-00-3		
Ingredients according to detergents regulation (EC nr. 648/2004):		
non-ionic surfactants		≥30%
anionic surfactants		≥5 - <15%

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:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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 (at least 15 minutes) under running water. If symptoms persist, consult a doctor.

After ingestion: Call for a doctor immediately.

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.

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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: Not required.

6.2 Environmental precautions: 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.

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: 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: Keep container tightly sealed.

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:
107-21-1 ethane-1,2-diol

WEL (Great Britain)	Short-term value: 104** mg/m ³ , 40** ppm Long-term value: 10* 52** mg/m ³ , 20** ppm Sk *particulate **vapour
IOELV (EU)	Short-term value: 104 mg/m ³ , 40 ppm Long-term value: 52 mg/m ³ , 20 ppm Skin

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
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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.

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.

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Protection of hands:

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

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

SECTION 9: Physical and chemical properties

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

Form:	Liquid.
Colour:	Colourless.
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value at 20 °C: 7.4

Change in condition

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	190 °C

Flash point: 85 °C

Flammability (solid, gas): Not applicable.

Ignition temperature: 225 °C

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not self-igniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower:	0.9 Vol %
Upper:	53.0 Vol %

Vapour pressure at 20 °C: 0.4 hPa

Density at 20 °C:	1.06 g/cm³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.

Solubility in / Miscibility with:

Water:	Fully miscible.
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Partition coefficient: n-octanol/water: Not determined.

Viscosity:

Dynamic at 20 °C:	100 mPas
Kinematic:	Not determined.

Solvent content:

Organic solvents:	36.0 %
VOC (EU, 1999/13/EC)	-

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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:

Harmful if swallowed.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	1,370 mg/kg
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Amines, coco alkyl, ethoxylated

Oral	LD50	500 mg/kg (ATE)
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107-21-1 ethane-1,2-diol

Oral	LD50	5,840 mg/kg (Rat)
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Dermal	LD50	9,530 mg/kg (rbt)
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107-41-5 2-methylpentane-2,4-diol

Oral	LD50	3,700 mg/kg (Rat)
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Dermal	LD50	8,560 mg/kg (rbt)
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Primary irritant effect:

Skin corrosion/irritation:

Causes severe skin burns and eye damage.

Serious eye damage/irritation:

Causes serious eye damage.

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:

May cause damage to organs through prolonged or repeated exposure.

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

SECTION 12: Ecological information

12.1 Toxicity:

Aquatic toxicity:

107-21-1 ethane-1,2-diol

LC50/96h	72,860 mg/l (Pimephales promelas)
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EC50/48h	>100 mg/l (Daphnia Magna)
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EC50/96h	6,500-13,000 mg/l (Algae)
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EC50/30 min	225 mg/l (Bateria)
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12.2 Persistence and degradability: No further relevant information available.

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12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Additional ecological information:
General notes:

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.

Contaminated packaging:
Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number: ADR/RID/ADN, IMDG, IATA	n.a. Void
14.2 UN proper shipping name: ADR/RID/ADN, IMDG, IATA	Not applicable Void
14.3 Transport hazard class(es): ADR/RID/ADN, IMDG, IATA Class:	n.a. Void
14.4 Packing group: ADR/RID/ADN, IMDG, IATA	Not applicable Void
14.5 Environmental hazards: Marine pollutant:	No
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:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

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H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Department issuing SDS: Environment protection department.

Abbreviations and acronyms:

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)

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

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Revisions were made in sections marked with *.

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