

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.11.2017

Version number 2

Revision: 01.11.2017

**SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking**

**1.1 Product Identifier:**

**Trade name:** Fyrewash Wipes

**Article number:** 73900

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

No further relevant information available.

**Application of the substance / the mixture:** Non-woven cloth impregnated with Fyrewash F3

**1.3 Details of the supplier of the safety data sheet:**

**Manufacturer / Importer / Supplier:**

Romaco BV  
Edisonstraat 11  
NL - 3261 LD Oud-Beijerland  
Nederland  
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, RUSSIA, AUSTRALIA, AFRICA: + 44 1962 890089  
AMERICAS: + 1 239 772 5911  
MIDDLE EAST: + 971 6 5578177  
FAR EAST: + 65 6 2995138

**SECTION 2: Hazards Identification**

**2.1 Classification of the substance or mixture:**

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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

**2.2 Label elements:**

**Labelling according to Regulation (EC) No 1272/2008:**

The substance is classified and labelled according to the CLP regulation.

**Hazard pictograms:** GHS05

**Signal word:** Danger

**Hazard-determining components of labelling:**

Alcohol, C9-C11, ethoxylated

**Hazard statements:**

H318 Causes serious eye damage.

**Precautionary statements:**

P280 Wear eye protection / face protection.

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.

**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:** Detergent composition

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<b>Components:</b>			
CAS: 68439-46-3 EC number: 614-482-0 Reg.nr.: 01-2119980051-45	Alcohol, C9-C11, ethoxylated	☞ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302	2.5-10%
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	2.5-10%
<b>Ingredients according to detergents regulation (EC nr. 648/2004):</b>			
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. Then consult a doctor.

**After ingestion:** Rinse out mouth and then drink 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:** Use fire extinguishing methods suitable to surrounding conditions.

**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:**

Particular danger of slipping on leaked/spilled product.

**6.2 Environmental precautions:**

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).

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:**

Store in cool, dry place in tightly closed receptacles.

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.

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**Further information about storage conditions:** None.  
**7.3 Specific end use(s):** No further relevant information available.

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**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:	
<b>112-34-5 2-(2-butoxyethoxy)ethanol</b>	
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
DNEL (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
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

**DNELs**

112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	Long-term - systemic effects	1.3 mg/kg bw/day (Worker)
Dermal	Long-term - systemic effects	20 mg/kg bw/day (Consumer)
		10 mg/kg bw/day (Worker)
Inhalative	Acute - systemic effects	34 mg/m <sup>3</sup> (Worker)
	Long-term - local effects	67.3 mg/m <sup>3</sup> (Worker)
	Long-term - systemic effects	34 mg/m <sup>3</sup> (Consumer)
		67.5 mg/m <sup>3</sup> (Worker)
	Acute - local effects	50.6 mg/m <sup>3</sup> (Consumer)

**PNECs**

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:**

Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the eyes.

**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.

**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:**

PVC or PE 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.  
 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.

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**Eye protection:**

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Tightly sealed goggles

**SECTION 9: Physical and Chemical Properties**

**9.1 Information on basic physical and chemical properties:**

**General Information:**

**Appearance:**

<b>Form:</b>	Non-woven impregnated cloth.
<b>Colour:</b>	Not determined.
<b>Odour:</b>	Odourless.
<b>Odour threshold:</b>	Not determined.

**pH-value at 20 °C:** 7.8

**Change in condition**

**Initial boiling point and boiling range:** 104 °C

**Flash point:** > 100 °C

**Flammability (solid, gas):** Not applicable.

**Ignition temperature:**

**Decomposition temperature:** Not determined.

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

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:**

<b>Lower:</b>	0.7 Vol %
<b>Upper:</b>	5,9 Vol %

**Vapour pressure at 20 °C:** 23 hPa

**Density at 20 °C:** 1 g/cm<sup>3</sup>

**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.

**Solvent content:**

**VOC (EU, 1999/13/EC)** 3.2 %

**VOC (USA, EPA Method 24)** 3.133 %

**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.

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**10.5 Incompatible materials:** No further relevant information available.

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**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.

<b>LD/LC50 values relevant for classification:</b>		
<b>ATE (Acute Toxicity Estimates)</b>		
Oral	LD50	28,966 mg/kg (Rat)
<b>68439-46-3 Alcohol, C9-C11, ethoxylated</b>		
Oral	LD50	1,400 mg/kg (Rat)
<b>112-34-5 2-(2-butoxyethoxy)ethanol</b>		
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:**

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:** 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:**

<b>Aquatic toxicity:</b>		
<b>68439-46-3 Alcohol, C9-C11, ethoxylated</b>		
LC50/48h		5.3-12 mg/l (Daphnia Magna)
LC50/96h		11 mg/l (Fish)

**12.2 Persistence and degradability:** Easily biodegradable

**12.3 Bioaccumulative potential:** No further relevant information available.

**12.4 Mobility in soil:** No further relevant information available.

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**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.

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**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**

<b>14.1 UN-Number:</b> <b>ADR/RID/ADN, IMDG, IATA</b>	Void
<b>14.2 UN proper shipping name:</b> <b>ADR/RID/ADN:</b> <b>IMDG, IATA</b>	Void Void
<b>14.3 Transport hazard class(es):</b> <b>ADR/RID/ADN, IMDG, IATA</b> <b>Class:</b>	Void
<b>14.4 Packing group:</b> <b>ADR/RID/ADN, IMDG, IATA</b>	Void
<b>14.5 Environmental hazards:</b> <b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user:</b>	Not applicable.
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b>	Not applicable.
<b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
<b>UN "Model Regulation":</b>	Void

**SECTION 15: Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**REGULATION (EC) No 1907/2006 ANNEX XVII:** Conditions of restriction: 3, 55

**National regulations:**

**Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

**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.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

**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 intérieure (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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

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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  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
**Revisions were made in sections marked with \*.**

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