

SAFETY DATA SHEET

according to EC directive 2001/58/EC



FORTAKLEEN - RC95

SUBID : 000000010204

Version 3

Print Date 08.11.2007

Revision Date 24.08.2007

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation

Product name : FORTAKLEEN - RC95

Use of the Substance/Preparation : Emulsion cleaner

Company/Undertaking Identification

Agfa-Gevaert Ltd.

Vantage West

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United Kingdom

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2. HAZARDS IDENTIFICATION

EC-classification:

Symbol(s) : Xn Harmful
R-phrases(s) : R65 Harmful: may cause lung damage if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The hazard and labelling information in this section is that of the individual ingredients. The corresponding information relative to this product as supplied is given in section 15. Full text of each relevant R-phrase is listed in section 16.

Emulsion cleaner, mainly consisting of:

Hazardous components

- | | | | | |
|-------------------------------------|---------------------|--------------|---|------|
| • Naphtha (petroleum) | Concentration [%] : | 10.0 | - | 20.0 |
| CAS-No. | : | 64742-48-9 | | |
| EINECS-No. | : | 265-150-3 | | |
| Symbol(s) | : | Xn | | |
| R-phrase(s) | : | R65, R66 | | |
| • Phosphoric acid | Concentration [%] : | 5.0 | - | 10.0 |
| CAS-No. | : | 7664-38-2 | | |
| Index-No. | : | 015-011-00-6 | | |
| EINECS-No. | : | 231-633-2 | | |
| Symbol(s) | : | C | | |
| R-phrase(s) | : | R34 | | |
| • Alkylaryl(biphenyl)polyglycoether | Concentration [%] : | 0.5 | - | 1.0 |
| CAS-No. | : | 104376-72-9 | | |
| R-phrase(s) | : | R52/53 | | |
| • Iron-III-nitrate | Concentration [%] : | 0.1 | - | 0.5 |
| CAS-No. | : | 10421-48-4 | | |
| EINECS-No. | : | 233-899-5 | | |
| Symbol(s) | : | O, Xi | | |

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R-phrases(s) : R36/38, R 8

Other

• Aluminium oxide	Concentration [%] :	10.0	-	20.0
• Paraffin oil	Concentration [%] :	1.0	-	5.0
• Silica	Concentration [%] :	1.0	-	5.0

4. FIRST AID MEASURES

Eye contact	:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin contact	:	Wash immediately with plenty of water and soap. If symptoms persist, seek medical advice.
Ingestion	:	Do not induce vomiting. Obtain medical attention.
Inhalation	:	Take person to fresh air. If necessary, seek medical advice.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	e.g. water, CO2, foam, powder, sand.
Further information	:	Water mist may be used to cool closed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	See section : Exposure controls / personel protection.
Environmental precautions	:	For waste disposal see section 13.
Methods for cleaning up	:	Dike the spill if necessary. Soak up with absorbent material. Collect large spills into a properly labelled and sealable container. Prevent release into the drain, soil or surface water.
Additional advice	:	Wash away residues with plenty of water.

7. HANDLING AND STORAGE

Handling

Advice on safe handling	:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Advice on protection against fire and explosion	:	Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers	:	Keep container tightly closed and in a well-ventilated place. Protect from direct sunlight.
Advice on common storage	:	Store away from strong alkalis.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

Components	CAS-No.	Values	Type	Revision Date	Basis

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Aluminium oxide	1344-28-1	10 mg/m3	TWA	2005	EH40 WEL
		4 mg/m3	TWA	2005	EH40 WEL
Phosphoric acid	7664-38-2	1 mg/m3	TWA	05 2001	EU ELV
		2 mg/m3	STEL	05 2001	EU ELV
		1 mg/m3	TWA	2005	EH40 WEL
		2 mg/m3	STEL	2005	EH40 WEL
Iron-III-nitrate	10421-48-4	1 mg/m3	TWA	2005	EH40 WEL
		2 mg/m3	STEL	2005	EH40 WEL

Exposure controls

- Engineering measures : Ventilation should be sufficient so that any applicable occupational exposure limits are not exceeded.
- Hygiene measures : Observe normal precautions when handling chemicals. Avoid inhaling vapour. Keep away from foodstuffs, drinks and tobacco.
- Hand protection : Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness \geq 0.38 mm, breakthrough time $>$ 480 min) or neoprene (thickness \geq 0.65 mm, breakthrough time $>$ 240 min). For intermittent splash protection corresponding gloves with breakthrough times $>$ 60 min can be used. Avoid gloves made of: butyl rubber. Avoid gloves made of: natural latex.
- Eye protection : Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

- Form : Liquid.
- Colour : White.
- Odour : Smell of petroleum

Important Health Safety and Environmental Information

- Relative density (20 °C) : 1.087
- Solubility/qualitative : Partially miscible with water.
- pH (25 °C) : 1.0
- Melting point/range : $<$ 0 °C
- Boiling point/range : $>$ 84 °C
- Flash point : $>$ 100 °C

10. STABILITY AND REACTIVITY

- Stability : The product is stable under normal conditions of storage and use.
- Conditions and materials to avoid : Avoid contact with strong alkalis.
- Hazardous decomposition products : None

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11. TOXICOLOGICAL INFORMATION

Harmful: may cause lung damage if swallowed.

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

- Phosphoric acid : LD50 rat 1,530 mg/kg
- Alkylaryl(biphenylol)polyglycol ether : LD50 rat > 2,000 mg/kg
- Iron-III-nitrate : LD50 rat 3,250 mg/kg

Acute inhalation toxicity

- Phosphoric acid : LC50 rat > 0.2 mg/l/ 4 h
- Alkylaryl(biphenylol)polyglycol ether : LC50 rat > 1 mg/l/ 4 h

Acute dermal toxicity

- Phosphoric acid : LD50 rabbit 2,740 mg/kg
- Alkylaryl(biphenylol)polyglycol ether : LD50 rat > 1,130 mg/kg

Other information

Hazard labelling of this preparation: see section 15.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradation

- Alkylaryl(biphenylol)polyglycol ether : OECD 301D Assessment of biological degradability < 10 % after 28 d

Ecotoxicity effects

Ecotoxicity data specific for individual ingredients in their pure state:

Toxicity to fish

- Alkylaryl(biphenylol)polyglycol ether : Species: Brachidanio rerio (zebra fish)
LC50: 18 mg/l/ 96 h
- Iron-III-nitrate : Species: Leuciscus idus (golden orfe)
LC50: > 10 mg/l/ 96 h

Toxicity to daphnia

- Phosphoric acid : Species: Daphnia magna (water flea)
EC50: > 100 mg/l/ 96 h

Toxicity to bacteria

- Phosphoric acid : Species: Pseudomonas putida (bacteria)
EC50: 270 mg/l/ 16 h

This preparation does not contain any ingredient that is classified as hazardous to the environment according to European Directives and corresponding national legislation.

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13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Environmental regulations, discharge of chemicals and washwater, waste treatment and disposal conditions of chemicals and their packaging may vary from one country to another. The relevant local regulations should be consulted. When this product or its contaminated packaging has to be removed as waste, contact an authorized waste contractor. May be discharged to drain if local regulations permit.

For waste resulting from this product, it is recommended to use European Waste Code : 20 01 29 (detergents containing dangerous substances).

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazardous components which must be listed on the label :

• CAS-No.	: 64742-48-9	Naphtha (petroleum)
Symbol(s)	: Xn	Harmful
R-phrases(s)	: R65	Harmful: may cause lung damage if swallowed.
S-phrases(s)	: S23	Do not breathe gas/fumes/vapour/spray.
	S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

Further information

Text of R-phrases referred to under headings 2 and 3:

R 8	Contact with combustible material may cause fire.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

This Safety Data Sheet is compiled in accordance with European Directives and corresponding national legislation.

The information disclosed in this Safety Data Sheet is believed to be correct to the best of our current knowledge and experience. It only relates to the specific product designated herein and it may not be valid when said product is used in combination with any other material or in any process, unless specified in the text. This document aims to provide the necessary health and safety information of the product and is not to be considered a warranty or quality specification. It is the

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responsibility of the user to comply with local legislation relating to safety, health, environment and waste management.