

# SAFETY DATA SHEET

according to EC directive 2001/58/EC



## FORTAKLEEN ULTRA

SUBID : 000000012224

Version 2

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 ULTRA

Use of the Substance/Preparation : Emulsion cleaner

#### Company/Undertaking Identification

Agfa-Gevaert Ltd.

Vantage West

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### 2. HAZARDS IDENTIFICATION

#### EC-classification:

Symbol(s)	: Xn	Harmful
	: N	Dangerous for the environment
R-phrases(s)	: R10	Flammable.
	: R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	: 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 [%] : | 40.0 | - | 60.0 |
| CAS-No.                  | : 64742-48-9   |                     |      |   |      |
| EINECS-No.               | : 265-150-3    |                     |      |   |      |
| Symbol(s)                | : Xn           |                     |      |   |      |
| R-phrase(s)              | : R65, R66     |                     |      |   |      |
| • Citric acid            |                | Concentration [%] : | 5.0  | - | 10.0 |
| CAS-No.                  | : 77-92-9      |                     |      |   |      |
| EINECS-No.               | : 201-069-1    |                     |      |   |      |
| Symbol(s)                | : Xi           |                     |      |   |      |
| R-phrase(s)              | : R36          |                     |      |   |      |
| • 1,2,4-Trimethylbenzene |                | Concentration [%] : | 1.0  | - | 5.0  |
| CAS-No.                  | : 95-63-6      |                     |      |   |      |
| Index-No.                | : 601-043-00-3 |                     |      |   |      |
| EINECS-No.               | : 202-436-9    |                     |      |   |      |

# SAFETY DATA SHEET

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Symbol(s)	:	Xn, N		
R-phrases(s)	:	R10, R20, R36/37/38, R51/53		
• Phosphoric acid			Concentration [%] :	1.0 - 5.0
CAS-No.	:	7664-38-2		
Index-No.	:	015-011-00-6		
EINECS-No.	:	231-633-2		
Symbol(s)	:	C		
R-phrases(s)	:	R34		
• Xylene			Concentration [%] :	1.0 - 5.0
CAS-No.	:	1330-20-7		
Index-No.	:	601-022-00-9		
EINECS-No.	:	215-535-7		
Symbol(s)	:	Xn		
R-phrases(s)	:	R10, R20/21, R38		
• 1,3,5-Trimethylbenzene			Concentration [%] :	1.0 - 5.0
CAS-No.	:	108-67-8		
Index-No.	:	601-025-00-5		
EINECS-No.	:	203-604-4		
Symbol(s)	:	Xi, N		
R-phrases(s)	:	R10, R37, R51/53		
• Isopropylbenzene			Concentration [%] :	0.5 - 1.0
CAS-No.	:	98-82-8		
Index-No.	:	601-024-00-X		
EINECS-No.	:	202-704-5		
Symbol(s)	:	Xn, N		
R-phrases(s)	:	R10, R37, R51/53, R65		

### Other

• Silica			Concentration [%] :	5.0 - 10.0
• Aluminium oxide			Concentration [%] :	0.5 - 1.0

## 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. Take off all contaminated clothing immediately.
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	:	Carbon dioxide (CO <sub>2</sub> ), Foam., Dry sand., Water spray.
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire.
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.

# SAFETY DATA SHEET

according to EC directive 2001/58/EC



## FORTAKLEEN ULTRA

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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.

### 7. HANDLING AND STORAGE

#### Handling

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Take precautionary measures against static discharges.

#### 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 and oxidizing agents.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Limit Values

Components	CAS-No.	Values	Type	Revision Date	Basis
1,2,4-Trimethylbenzene	95-63-6	100 mg/m3	TWA	05 2003	EU ELV
		125 mg/m3	TWA	2005	EH40 WEL
Xylene	1330-20-7	221 mg/m3	TWA	05 2001	EU ELV
		442 mg/m3	STEL	05 2001	EU ELV
		220 mg/m3	TWA	2005	EH40 WEL
		441 mg/m3	STEL	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
1,3,5-Trimethylbenzene	108-67-8	100 mg/m3	TWA	05 2003	EU ELV
		125 mg/m3	TWA	2005	EH40 WEL
Isopropylbenzene	98-82-8	100 mg/m3	TWA	05 2003	EU ELV
		250 mg/m3	STEL	05 2003	EU ELV
		125 mg/m3	TWA	2005	EH40 WEL
Aluminium oxide	1344-28-1	250 mg/m3	STEL	2005	EH40 WEL
		10 mg/m3	TWA	2005	EH40 WEL
		4 mg/m3	TWA	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

# SAFETY DATA SHEET

according to EC directive 2001/58/EC



## FORTAKLEEN ULTRA

SUBID : 000000012224

Version 2

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Revision Date 24.08.2007

gloves made of: natural latex.

Eye protection : Safety glasses.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### General Information

Form : Liquid (dispersion)  
Colour : Pink  
Odour : Smell of petroleum

#### Important Health Safety and Environmental Information

Relative density (20 °C) : 0.944  
Solubility/qualitative : Partially miscible with water.  
pH (25 °C) : 0.5  
Melting point/range : < 0 °C  
Boiling point/range : 100 to 200 °C  
Flash point : 43 °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 and oxidizing agents. Heat, flames and sparks.  
Hazardous decomposition products : Carbon monoxide (CO).Carbon dioxide (CO2).

### 11. TOXICOLOGICAL INFORMATION

Harmful: may cause lung damage if swallowed.

Toxicity data specific for individual ingredients in their pure state:

#### Acute oral toxicity

• Citric acid	: LD50 rat	3,000 mg/kg
• 1,2,4-Trimethylbenzene	: LD50 rat	5,000 mg/kg
• Phosphoric acid	: LD50 rat	1,530 mg/kg
• Xylene	: LD50 rat	4,300 mg/kg
• 1,3,5-Trimethylbenzene	: LD50 rat	5,000 mg/kg
• Isopropylbenzene	: LD50 rat	1,400 mg/kg

#### Acute inhalation toxicity

• 1,2,4-Trimethylbenzene	: LC50 rat	18 mg/l/ 4 h
• Phosphoric acid	: LC50 rat	> 0.2 mg/l/ 4 h
• Xylene	: LC50 rat	6,350 mg/l/ 4 h
• 1,3,5-Trimethylbenzene	: LC50 rat	24 mg/l/ 4 h
• Isopropylbenzene	: LC50 rat	39 mg/l/ 4 h

#### Acute dermal toxicity

• Citric acid	: LD50 rabbit	5,500 mg/kg
• Phosphoric acid	: LD50 rabbit	2,740 mg/kg
• Xylene	: LD50 rabbit	4,500 mg/kg

# SAFETY DATA SHEET

according to EC directive 2001/58/EC



## FORTAKLEEN ULTRA

SUBID : 000000012224

Version 2

Print Date 08.11.2007

Revision Date 24.08.2007

- Isopropylbenzene : LD50 rabbit 10,580 mg/kg

### Other information

Hazard labelling of this preparation: see section 15.

## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

#### Biodegradation

- Citric acid : OECD 302B Inherent biodegradability  
98 % after 2 d
- Xylene : OECD 301D Assessment of biological degradability  
25 % after 28 d

### Ecotoxicity effects

Ecotoxicity data specific for individual ingredients in their pure state:

#### Toxicity to fish

- Citric acid : Species: Leuciscus idus (golden orfe)  
LC50: 760 mg/l/ 48 h
- 1,2,4-Trimethylbenzene : Species: Pimephales promelas (fathead minnow)  
LC50: 7.7 mg/l/ 96 h
- Xylene : Species: Pimephales promelas (fathead minnow)  
LC50: 13.4 mg/l/ 96 h
- 1,3,5-Trimethylbenzene : Species: Carassius auratus (goldfish)  
LC50: 12.5 mg/l/ 96 h
- Isopropylbenzene : Species: Leuciscus idus (golden orfe)  
LC50: 22.5 mg/l/ 48 h

#### Toxicity to daphnia

- Citric acid : Species: Daphnia magna (water flea)  
EC50: 120 mg/l/ 72 h
- 1,2,4-Trimethylbenzene : Species: Daphnia magna (water flea)  
EC50: 3.6 mg/l/ 48 h
- Phosphoric acid : Species: Daphnia magna (water flea)  
EC50: > 100 mg/l/ 96 h
- Xylene : Species: Daphnia magna (water flea)  
EC50: 81 mg/l/ 24 h
- 1,3,5-Trimethylbenzene : Species: Daphnia magna (water flea)  
EC50: 50 mg/l/ 24 h
- Isopropylbenzene : Species: Daphnia magna (water flea)  
EC50: 2 mg/l/ 24 h

#### Toxicity to algae

- Citric acid : Species: Scenedesmus quadricauda (algae)  
EC50: 640 mg/l/ 7 d
- Xylene : Species: Scenedesmus subspicatus (algae)  
EC50: 110 mg/l/ 48 h
- 1,3,5-Trimethylbenzene : Species: Scenedesmus subspicatus (algae)  
EC50: > 25 mg/l/ 48 h

#### Toxicity to bacteria

# SAFETY DATA SHEET

according to EC directive 2001/58/EC



## FORTAKLEEN ULTRA

SUBID : 000000012224

Version 2

Print Date 08.11.2007

Revision Date 24.08.2007

- Citric acid : Species: Pseudomonas putida (bacteria)  
EC5: > 10,000 mg/l/ 16 h
- Phosphoric acid : Species: Pseudomonas putida (bacteria)  
EC50: 270 mg/l/ 16 h
- Xylene : Species: Pseudomonas putida (bacteria)  
EC50: 1,000 mg/l/ 15 h
- Isopropylbenzene : Species: Pseudomonas putida (bacteria)  
EC10: 245 mg/l/ 24 h

### 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. Do not release into drain. Collect for removal by a licensed waste contractor.

For waste resulting from this product, it is recommended to use European Waste Code : 14 06 03 (other solvents and solvent mixtures).

### 14. TRANSPORT INFORMATION

#### ADR

- UN-No : 1268
- Proper shipping name : PETROLEUM DISTILLATES, N.O.S. (Naphtha (petroleum))
- Class : 3
- Packing group : III
- Classification Code : F1
- Labelling No. : 3
- Risk No. : 30

#### RID

- UN-No : 1268
- Proper shipping name : PETROLEUM DISTILLATES, N.O.S. (Naphtha (petroleum))
- Class : 3
- Packing group : III
- Classification Code : F1
- Labelling No. : 3
- Risk No. : 30

#### ADNR

- UN-No : 1268
- Proper shipping name : PETROLEUM DISTILLATES, N.O.S. (Naphtha (petroleum))
- Class : 3
- Packing group : III
- Classification Code : F1
- Labelling No. : 3

#### IMO / IMDG

- UN-No : 1268
- Proper shipping name : PETROLEUM DISTILLATES, N.O.S. (Naphtha (petroleum))
- Class : 3
- Packing group : III
- Labelling No. : 3
- EmS : F-E, S-E

# SAFETY DATA SHEET

according to EC directive 2001/58/EC



## FORTAKLEEN ULTRA

SUBID : 000000012224

Version 2

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Revision Date 24.08.2007

Marine pollutant : P

### ICAO / IATA cargo aircraft only

UN-No : 1268  
Proper shipping name : Petroleum distillates, n.o.s. (Naphtha (petroleum))  
Class : 3  
Packing group : III  
Labelling No. : 3  
Packing instruction : 310

### ICAO / IATA passenger and cargo aircraft

UN-No : 1268  
Proper shipping name : Petroleum distillates, n.o.s. (Naphtha (petroleum))  
Class : 3  
Packing group : III  
Labelling No. : 3  
Packing instruction : 309

## 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  
N Dangerous for the environment
- R-phrase(s) : R10 Flammable.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S-phrase(s) : R65 Harmful: may cause lung damage if swallowed.  
S23 Do not breathe gas/fumes/vapour/spray.  
S24 Avoid contact with skin.  
S57 Use appropriate container to avoid environmental contamination.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.  
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:

# SAFETY DATA SHEET

according to EC directive 2001/58/EC



## **FORTAKLEEN ULTRA**

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R10	Flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R34	Causes burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R51/53	Toxic 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 responsibility of the user to comply with local legislation relating to safety, health, environment and waste management.