

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006



KLEERGUM PLUS

SUBID : 000000012213

Version 3

Print Date 18.07.2008

Revision Date 17.07.2008

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

Identification of the substance/preparation

Product name : KLEERGUM PLUS
Use of the Substance/Preparation : Washout storage gum

Company/Undertaking Identification

Agfa-Gevaert Ltd.
Vantage West
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Brentford, Middlesex TW8 9AX
United Kingdom
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2. HAZARDS IDENTIFICATION

EC-classification:

Symbol(s)	: Xn	Harmful
R-phrase(s)	: R10 R43 R52/53	Flammable. May cause sensitization by skin contact. 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.

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.

Washout storage gum, mainly consisting of:

Hazardous components

- | | | | | | |
|--------------------------|----------------|---------------------|------|---|------|
| • Naphtha (petroleum) | | Concentration [%] : | 10.0 | - | 20.0 |
| CAS-No. | : 64742-82-1 | | | | |
| • 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-phrase(s) | : R34 | | | | |
| • 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 | | | | |
| Symbol(s) | : Xn, N | | | | |

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R-phrase(s)	: R10, R20, R36/37/38, R51/53		
• Turpentine, oil		Concentration [%] :	0.5 - 1.0
CAS-No.	: 8006-64-2		
Index-No.	: 650-002-00-6		
EINECS-No.	: 232-350-7		
Symbol(s)	: Xn, N		
R-phrase(s)	: R10, R20/21/22, R36/38, R43, R51/53, R65		
• Xylene		Concentration [%] :	0.5 - 1.0
CAS-No.	: 1330-20-7		
Index-No.	: 601-022-00-9		
EINECS-No.	: 215-535-7		
Symbol(s)	: Xn		
R-phrase(s)	: R10, R20/21, R38		
• 1,3,5-Trimethylbenzene		Concentration [%] :	0.1 - 0.5
CAS-No.	: 108-67-8		
Index-No.	: 601-025-00-5		
EINECS-No.	: 203-604-4		
Symbol(s)	: Xi, N		
R-phrase(s)	: R10, R37, R51/53		
• Propylbenzene		Concentration [%] :	0.1 - 0.5
CAS-No.	: 103-65-1		
Index-No.	: 601-024-00-X		
EINECS-No.	: 203-132-9		
Symbol(s)	: Xn, N		
R-phrase(s)	: R10, R37, R51/53, R65		
• Isopropylbenzene		Concentration [%] :	0.1 - 0.5
CAS-No.	: 98-82-8		
Index-No.	: 601-024-00-X		
EINECS-No.	: 202-704-5		
Symbol(s)	: Xn, N		
R-phrase(s)	: R10, R37, R51/53, R65		
• 2-Bromo-2-nitropropane-1,3-diol		Concentration [%] :	0.1 - 0.5
CAS-No.	: 52-51-7		
Index-No.	: 603-085-00-8		
EINECS-No.	: 200-143-0		
Symbol(s)	: Xn, N		
R-phrase(s)	: R21/22, R37/38, R41, R50		
• Di(octyl)sulfosuccinic acid sodium salt		Concentration [%] :	0.0 - 0.1
CAS-No.	: 577-11-7		
EINECS-No.	: 209-406-4		
Symbol(s)	: Xi		
R-phrase(s)	: R36/38, R52/53		
• Isothiazolinones		Concentration [%] :	0.0 - 0.1
CAS-No.	: 55965-84-9		
Index-No.	: 613-167-00-5		
Symbol(s)	: T, N		
R-phrase(s)	: R23/24/25, R34, R43, R50/53		
• Ethanol		Concentration [%] :	0.0 - 0.1
CAS-No.	: 64-17-5		
Index-No.	: 603-002-00-5		
EINECS-No.	: 200-578-6		
Symbol(s)	: F		
R-phrase(s)	: R11		

Other

• Water		Concentration [%] :	60.0 - 80.0
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• Gum arabic	Concentration [%] :	5.0	-	10.0
• Triethanolamine	Concentration [%] :	1.0	-	5.0
• Bis(2-ethylhexyl)adipate	Concentration [%] :	1.0	-	5.0
• Cyclodiene resin	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.
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 ₂), Foam., powder, Dry 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	:	If substance has entered a water course or sewer or contaminated soil or vegetation advise fire brigade or police.

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.
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Storage

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

Components	CAS-No.	Values	Type	Revision Date	Basis
Phosphoric acid	7664-38-2	1 mg/m ³	TWA	05 2001	EU ELV
		2 mg/m ³	STEL	05 2001	EU ELV
		1 mg/m ³	TWA	2005	EH40 WEL

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1,2,4-Trimethylbenzene	95-63-6	2 mg/m3 100 mg/m3	STEL TWA	2005 05 2003	EH40 WEL EU ELV
Xylene	1330-20-7	125 mg/m3	TWA	2005	EH40 WEL
		221 mg/m3	TWA	05 2001	EU ELV
		442 mg/m3	STEL	05 2001	EU ELV
		220 mg/m3	TWA	2005	EH40 WEL
1,3,5-Trimethylbenzene	108-67-8	441 mg/m3	STEL	2005	EH40 WEL
		100 mg/m3	TWA	05 2003	EU ELV
		125 mg/m3	TWA	2005	EH40 WEL
Ethanol	64-17-5	1,920 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 gloves made of: natural latex.
- Eye protection : Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

- Form : Liquid.
- Colour : Off-white
- Odour : Smell of petroleum

Important Health Safety and Environmental Information

- Relative density (20 °C) : 1.012
- Solubility/qualitative : Partially miscible with water.
- pH (25 °C) : 6.5
- Melting point/range : < 0 °C
- Boiling point/range : 100 to 200 °C
- Flash point : 56.4 °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 oxidizing agents.

11. TOXICOLOGICAL INFORMATION

May cause sensitization by skin contact.

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Harmful: may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking.

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

• Naphtha (petroleum)	: LD50 rat	> 2,000 mg/kg
• Phosphoric acid	: LD50 rat	1,530 mg/kg
• 1,2,4-Trimethylbenzene	: LD50 rat	5,000 mg/kg
• Turpentine, oil	: LD50 rat	5,760 mg/kg
• Xylene	: LD50 rat	4,300 mg/kg
• 1,3,5-Trimethylbenzene	: LD50 rat	5,000 mg/kg
• Propylbenzene	: LD50 rat	6,040 mg/kg
• Isopropylbenzene	: LD50 rat	1,400 mg/kg
• 2-Bromo-2-nitropropane-1,3-diol	: LD50 rat	180 mg/kg
• Di(octyl)sulfosuccinic acid sodium salt	: LD50 rat	> 3,100 mg/kg
• Isothiazolinones	: LD50 rat	> 2,000 mg/kg
• Ethanol	: LD50 rat	7,060 mg/kg

Acute inhalation toxicity

• Phosphoric acid	: LC50 rat	> 0.2 mg/l/ 4 h
• 1,2,4-Trimethylbenzene	: LC50 rat	18 mg/l/ 4 h
• Turpentine, oil	: LC50 rat	12 mg/l/ 6 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
• 2-Bromo-2-nitropropane-1,3-diol	: LC50 rat	> 5 mg/l/ 6 h
• Di(octyl)sulfosuccinic acid sodium salt	: LC50 rat	> 20 mg/l/ 4 h
• Ethanol	: LC50 rat	> 8,000 mg/l/ 4 h

Acute dermal toxicity

• Naphtha (petroleum)	: LD50 rabbit	> 2,000 mg/kg
• Phosphoric acid	: LD50 rabbit	2,740 mg/kg
• Turpentine, oil	: LD50 rat	> 5,010 mg/kg
• Xylene	: LD50 rabbit	4,500 mg/kg
• Isopropylbenzene	: LD50 rabbit	10,580 mg/kg
• 2-Bromo-2-nitropropane-1,3-diol	: LD50 rat	1,600 mg/kg
• Di(octyl)sulfosuccinic acid sodium salt	: LD50 rabbit	> 10,000 mg/kg
• Isothiazolinones	: LD50 rat	> 5,000 mg/kg
• Ethanol	: LDL0 rabbit	20,000 mg/kg

Other information

Hazard labelling of this preparation or substance : see section 15.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradation

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- Xylene : OECD 301D Assessment of biological degradability
25 % after 28 d
- Di(octyl)sulfosuccinic acid sodium salt : OECD 301D Assessment of biological degradability
67 % after 28 d

Ecotoxicity effects

Ecotoxicity data specific for individual ingredients in their pure state:

Toxicity to fish

- 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
- 2-Bromo-2-nitropropane-1,3-diol : Species: Salmo gairdneri (rainbow trout)
LC50: 41.2 mg/l/ 96 h
- Di(octyl)sulfosuccinic acid sodium salt : Species: Lepomis macrochirus (bluegill sunfish)
LC50: 37 mg/l/ 96 h
- Ethanol : Species: Leuciscus idus (golden orfe)
LC50: 8,140 mg/l/ 48 h

Toxicity to daphnia

- Phosphoric acid : Species: Daphnia magna (water flea)
EC50: > 100 mg/l/ 96 h
- 1,2,4-Trimethylbenzene : Species: Daphnia magna (water flea)
EC50: 3.6 mg/l/ 48 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
- 2-Bromo-2-nitropropane-1,3-diol : Species: Daphnia magna (water flea)
EC50: 1.4 mg/l/ 48 h
- Di(octyl)sulfosuccinic acid sodium salt : Species: Daphnia magna (water flea)
EC50: 36 mg/l/ 48 h
- Ethanol : Species: Daphnia magna (water flea)
EC50: > 9,000 mg/l/ 48 h

Toxicity to algae

- 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
- Ethanol : Species: Scenedesmus quadricauda (algae)
EC5: 5,000 mg/l/ 7 d

Toxicity to bacteria

- Phosphoric acid : Species: Pseudomonas putida (bacteria)
EC50: 270 mg/l/ 16 h
- Xylene : Species: Pseudomonas putida (bacteria)
EC50: 1,000 mg/l/ 15 h

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- Isopropylbenzene : Species: Pseudomonas putida (bacteria)
EC10: 245 mg/l/ 24 h
- Ethanol : Species: Pseudomonas putida (bacteria)
EC5: 6,500 mg/l/ 16 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 : 1300
Proper shipping name : TURPENTINE SUBSTITUTE
Class : 3
Packing group : III
Classification Code : F1
Labelling No. : 3
Risk No. : 30

RID

UN-No : 1300
Proper shipping name : TURPENTINE SUBSTITUTE
Class : 3
Packing group : III
Classification Code : F1
Labelling No. : 3
Risk No. : 30

ADNR

UN-No : 1300
Proper shipping name : TURPENTINE SUBSTITUTE
Class : 3
Packing group : III
Classification Code : F1
Labelling No. : 3

IMO / IMDG

UN-No : 1300
Proper shipping name : TURPENTINE SUBSTITUTE, MIXTURE
Class : 3
Packing group : III
Labelling No. : 3
EmS : F-E, S-E
Marine pollutant : P

ICAO / IATA cargo aircraft only

UN-No : 1300

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Proper shipping name : TURPENTINE SUBSTITUTE, MIXTURE
Class : 3
Packing group : III
Labelling No. : 3
Packing instruction : 310

ICAO / IATA passenger and cargo aircraft

UN-No : 1300
Proper shipping name : TURPENTINE SUBSTITUTE, MIXTURE
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. : 64742-82-1 Naphtha (petroleum)
 - 8006-64-2 Turpentine, oil
 - 55965-84-9 Isothiazolinones
- Symbol(s) : Xn Harmful
R-phrase(s) : R10 Flammable.
R43 May cause sensitization by skin contact.
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.
- S-phrase(s) : S23.2 Do not breathe vapour.
S24 Avoid contact with skin.
S37 Wear suitable gloves.
S60 This material and its container must be disposed of as hazardous waste.
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:

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R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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 responsibility of the user to comply with local legislation relating to safety, health, environment and waste management.