

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006



KN250 DELETION FLUID

SUBID : 000000009721

Version 1

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 : KN250 DELETION FLUID

Use of the Substance/Preparation : Deletion fluid

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)	: C	Corrosive
R-phrases(s)	: R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
	R34	Causes burns.

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.

Deletion fluid, mainly consisting of:

Hazardous components

- | | | | | | |
|--------------------------------|----------------|---------------------|------|---|------|
| • Benzyl alcohol | | Concentration [%] : | 40.0 | - | 60.0 |
| CAS-No. | : 100-51-6 | | | | |
| Index-No. | : 603-057-00-5 | | | | |
| EINECS-No. | : 202-859-9 | | | | |
| Symbol(s) | : Xn | | | | |
| R-phrase(s) | : R20/22 | | | | |
| • 1-Methoxy-2-propanol | | Concentration [%] : | 20.0 | - | 30.0 |
| CAS-No. | : 107-98-2 | | | | |
| Index-No. | : 603-064-00-3 | | | | |
| EINECS-No. | : 203-539-1 | | | | |
| R-phrase(s) | : R10 | | | | |
| • Ammonium hydrogen difluoride | | Concentration [%] : | 1.0 | - | 5.0 |
| CAS-No. | : 1341-49-7 | | | | |
| Index-No. | : 009-009-00-4 | | | | |
| EINECS-No. | : 215-676-4 | | | | |
| Symbol(s) | : T, C | | | | |

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R-phrases(s)	: R25, R34	Concentration [%] :	0.5 - 1.0
• Hydrofluoric acid			
CAS-No.	: 7664-39-3		
Index-No.	: 009-002-00-6		
EINECS-No.	: 231-634-8		
Symbol(s)	: T+, C		
R-phrases(s)	: R26/27/28, R35		

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. Apply calcium gluconate gel on and around the affected area and continuous massage it into the skin until at least 15 minutes after pain is relieved. Cover the area with a dressing soaked in the gel and lightly bandage. Seek medical attention.
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, CO ₂ , foam, powder, sand.
Specific hazards during fire fighting	: In case of fire, thermal decomposition with emission of hazardous fumes is possible

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	: See section : Exposure controls / personel protection.
Environmental precautions	: For waste disposal see section 13.
Methods for cleaning up	: 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 protection against fire and explosion	: Keep away from heat and sources of ignition.
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Storage

Requirements for storage areas and containers	: Keep container tightly closed. Protect from direct sunlight.
Advice on common storage	: Store away from oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

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Components	CAS-No.	Values	Type	Revision Date	Basis
1-Methoxy-2-propanol	107-98-2	375 mg/m3	TWA	05 2003	EU ELV
		568 mg/m3	STEL	05 2003	EU ELV
		375 mg/m3	TWA	2005	EH40 WEL
		560 mg/m3	STEL	2005	EH40 WEL
Ammonium hydrogen difluoride	1341-49-7	2.5 mg/m3	TWA	2005	EH40 WEL
Hydrofluoric acid	7664-39-3	1.5 mg/m3	TWA	05 2003	EU ELV
		2.5 mg/m3	STEL	05 2003	EU ELV
		1.5 mg/m3	TWA	2005	EH40 WEL
		2.5 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: butyl rubber (thickness \geq 0.36 mm, breakthrough time $>$ 480 min), 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: natural latex.
- Eye protection : Safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

- Form : Liquid.
- Colour : Blue
- Odour : Slight inherent odour

Important Health Safety and Environmental Information

- Relative density (20 °C) : 1.000
- Solubility/qualitative : Miscible with water at all ratios.
- pH (25 °C) : 1.0
- Melting point/range : $<$ -10 °C
- Boiling point/range : 120 °C
- Flash point : 65 °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.

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11. TOXICOLOGICAL INFORMATION

Causes burns.

Harmful by inhalation, in contact with skin and if swallowed.

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

- Benzyl alcohol : LD50 rat 1,230 mg/kg
- 1-Methoxy-2-propanol : LD50 rat 6,600 mg/kg
- Ammonium hydrogen difluoride : LD50 rat 130 mg/kg

Acute inhalation toxicity

- 1-Methoxy-2-propanol : LC50 rat 40 mg/l/ 4 h

Acute dermal toxicity

- Benzyl alcohol : LD50 rabbit 2,000 mg/kg
- 1-Methoxy-2-propanol : LD50 rabbit 13,000 mg/kg

Other information

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

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradation

- Benzyl alcohol : OECD 301D Assessment of biological degradability > 90 % after 28 d

Ecotoxicity effects

Ecotoxicity data specific for individual ingredients in their pure state:

Toxicity to fish

- Benzyl alcohol : Species: Pimephales promelas (fathead minnow)
LC50: 460 mg/l/ 96 h
- 1-Methoxy-2-propanol : Species: Pimephales promelas (fathead minnow)
LC50: 20,800 mg/l/ 96 h
- Ammonium hydrogen difluoride : Species: Brachidanio rerio (zebra fish)
LC0: 237 mg/l/ 96 h

Toxicity to daphnia

- Benzyl alcohol : Species: Daphnia magna (water flea)
EC50: 55 mg/l/ 24 h
- 1-Methoxy-2-propanol : Species: Daphnia magna (water flea)
EC50: > 500 mg/l/ 48 h

Toxicity to algae

- Benzyl alcohol : Species: Scenedesmus quadricauda (algae)
EC50: 640 mg/l/ 96 h
- 1-Methoxy-2-propanol : Species: Selenastrum capricornutum (algae)
EC50: > 1,000 mg/l/ 72 h

Toxicity to bacteria

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- Benzyl alcohol : Species: Pseudomonas putida (bacteria)
EC10: 658 mg/l/ 16 h
- Ammonium hydrogen difluoride : Species: Pseudomonas putida (bacteria)
EC50: 2,394 mg/l/ 17 h

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

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 : 14 06 03 (other solvents and solvent mixtures).

14. TRANSPORT INFORMATION

ADR

- UN-No : 3264
- Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s. (Ammonium hydrogen difluoride,)
- Class : 8
- Packing group : II
- Classification Code : C1
- Labelling No. : 8
- Risk No. : 80

RID

- UN-No : 3264
- Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s. (Ammonium hydrogen difluoride,)
- Class : 8
- Packing group : II
- Classification Code : C1
- Labelling No. : 8
- Risk No. : 80

ADNR

- UN-No : 3264
- Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s. (Ammonium hydrogen difluoride,)
- Class : 8
- Packing group : II
- Classification Code : C1
- Labelling No. : 8

IMO / IMDG

- UN-No : 3264
- Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s. (Ammonium hydrogen difluoride,)

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Class : 8
Packing group : II
Labelling No. : 8
EmS : F-A, S-B

ICAO / IATA cargo aircraft only

UN-No : 3264
Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s. (Ammonium hydrogen difluoride,)
Class : 8
Packing group : II
Labelling No. : 8
Packing instruction : 812

ICAO / IATA passenger and cargo aircraft

UN-No : 3264
Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s. (Ammonium hydrogen difluoride,)
Class : 8
Packing group : II
Labelling No. : 8
Packing instruction : 808

15. REGULATORY INFORMATION

Labelling according to EC Directives

Hazardous components which must be listed on the label :

- CAS-No. : 100-51-6 Benzyl alcohol
1341-49-7 Ammonium hydrogen difluoride
7664-39-3 Hydrofluoric acid
- Symbol(s) : C Corrosive
- R-phrases : R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
- S-phrases : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

Further information

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

- R10 Flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R20/22 Harmful by inhalation and if swallowed.
R25 Toxic if swallowed.
R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.

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R35 Causes severe burns.

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.