

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006



Energy Elite Improved Replenisher

SUBID : 000001010123

Version 2

Print Date 23.02.2010

Revision Date 22.02.2010

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

Identification of the substance/preparation

Product name : Energy Elite Improved Replenisher

Use of the Substance/Preparation : Offset plate developer solution

Company/Undertaking Identification

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

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Emergency telephone number (Belgium) : +32 3 4443333 (24h/24h)

2. HAZARDS IDENTIFICATION

Irritant effect on eyes, skin and respiratory system.

EC-classification:

Symbol(s) : Xi Irritant
R-phrases(s) : R36/38 Irritating to eyes and skin.

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-phrases is listed in section 16.

Aqueous offset plate developer solution, mainly consisting of:

Hazardous components

- | | | | | | |
|-------------------------|----------------|---------------------|-----|---|------|
| • Disodium metasilicate | | Concentration [%] : | 5.0 | - | 10.0 |
| CAS-No. | : 6834-92-0 | | | | |
| Index-No. | : 014-010-00-8 | | | | |
| EINECS-No. | : 229-912-9 | | | | |
| Symbol(s) | : C | | | | |
| R-phrases(s) | : R34, R37 | | | | |
| • Sodium octanoate | | Concentration [%] : | 1.0 | - | 5.0 |
| CAS-No. | : 1984-06-1 | | | | |
| EINECS-No. | : 217-850-5 | | | | |
| Symbol(s) | : Xi | | | | |
| R-phrases(s) | : R36/38 | | | | |
| • Sodium hydroxide | | Concentration [%] : | 0.5 | - | 2.0 |
| CAS-No. | : 1310-73-2 | | | | |
| Index-No. | : 011-002-00-6 | | | | |
| EINECS-No. | : 215-185-5 | | | | |
| Symbol(s) | : C | | | | |
| R-phrases(s) | : R35 | | | | |

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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 : Rinse mouth with plenty of water. Seek medical advice.
- Inhalation : Take person to fresh air. If necessary, seek medical advice.

5. FIRE-FIGHTING MEASURES

- Further information : Product is not combustible.

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 protection against fire and explosion : No special protective measures against fire and explosion required.

Storage

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

Components	CAS-No.	Values	Type	Revision Date	Basis
Sodium hydroxide	1310-73-2	2 mg/m ³	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. 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

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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 glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form : Liquid.
Colour : Colourless.
Odour : Odourless.

Important Health Safety and Environmental Information

Relative density : 1.067
Solubility/qualitative : Miscible with water at all ratios.
pH (25 °C) : 13.3
Melting point/range : $<$ 0 °C
Boiling point/range : $>$ 100 °C

10. STABILITY AND REACTIVITY

Stability : The product is stable under normal conditions of storage and use.

Conditions and materials to avoid : Avoid generating airborne dust. Remove all chemicals and rinse the processing tanks thoroughly with water before using any cleansing products.

Hazardous decomposition products : None

11. TOXICOLOGICAL INFORMATION

Irritating to eyes and skin.

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

- Disodium metasilicate : LD50 rat 1,153 mg/kg
- Sodium octanoate : LD50 rat 2,000 mg/kg
- Sodium hydroxide : LDLO rabbit 500 mg/kg

Other information

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

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Ecotoxicity data specific for individual ingredients in their pure state:

Toxicity to fish

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- Sodium octanoate : Species: Brachidanio rerio (zebra fish)
LC50: 110 mg/l/ 96 h
- Sodium hydroxide : Species: Leuciscus idus (golden orfe)
LC50: > 133 mg/l/ 48 h

Toxicity to daphnia

- Sodium octanoate : Species: Daphnia magna (water flea)
EC50: 170 mg/l/ 24 h
- Sodium hydroxide : Species: Daphnia magna (water flea)
EC50: > 100 mg/l/ 48 h

Toxicity to algae

- Sodium octanoate : Species: Selenastrum capricornutum (algae)
EC50: 144 mg/l/ 72 h

Further information on ecology

- Biochemical oxygen demand : 24,600 mg/l
within 5 days (BOD5)
- Chemical Oxygen Demand : 49,200 mg/l
(COD)

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. May be discharged to drain if local regulations permit. When this product or its contaminated packaging has to be removed as waste, contact an authorized waste contractor.

For waste resulting from this product, it is recommended to use European Waste Code : 09 01 02 (water-based offset plate developer solutions).

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

- | | | |
|-------------|----------|---|
| Symbol(s) | : Xi | Irritant |
| R-pharse(s) | : R36/38 | Irritating to eyes and skin. |
| S-pharse(s) | : S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| | S37 | Wear suitable gloves. |

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16. OTHER INFORMATION

Section(s) changed compared to the previous issue: 9

Further information

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

R34	Causes burns.
R35	Causes severe burns.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.

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.