

Energy Elite Improved Developer

SUBID:000001010122

Version 5

Print Date 01-17-2013

Revision Date 07-05-2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Identification of the substance/preparation

Product name : Energy Elite Improved Developer
 MSDS Number : 000001010122
 Use of the Substance/Preparation : Offset plate developer solution
 Product code : P9P3E, 4LNRP, 4LNSR
 Business group : GS

Company/Undertaking Identification

Agfa Corporation
 611 River Drive
 Center 3
 Elmwood Park, NJ 07407
 U.S.A.

Transport Emergency : Non-transportation

Call CHEMTREC : +1 800 4249300 Health Emergency Phone : +1 303 6235716
 International : +1 703 5273887 Agfa Information Phone : +1 201 4402500

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Aqueous offset plate developer solution, mainly consisting of:

	<u>CAS-No.</u>	<u>Concentration [%]</u>
• Disodium metasilicate	6834-92-0	>= 5.0 - <= 10.0
• Sodium octanoate	1984-06-1	>= 1.0 - <= 5.0
• Sodium gluconate	527-07-1	>= 1.0 - <= 5.0
• Water	7732-18-5	>= 80.0 - <= 100.0

SECTION 3. HAZARDS IDENTIFICATION

The product as a whole has not been tested. This hazard information is for the individual ingredients.

Emergency Overview

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

WARNING !

Causes respiratory tract irritation. Causes skin irritation. Causes eye irritation. Harmful if swallowed.

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Potential Health Effects

- Primary Routes of Entry : Eye contact. Skin contact. Inhalation of vapours or mists. Accidental ingestion.
- Aggravated Medical Condition : Persons with preexisting eye, skin or respiratory tract disorders may be more susceptible to the effects of this product.

Acute health effects

Inhalation

- Disodium metasilicate : Can be irritating to the mucous membranes and respiratory tract with symptoms of coughing, sore throat and shortness of breath.
- Sodium octanoate : Can be irritating to the mucous membranes and respiratory tract with symptoms of coughing, sore throat and shortness of breath.

Skin contact

- Disodium metasilicate : Can be severely irritating to the skin resulting in burning, reddening, swelling and blisters.
- Sodium octanoate : Can be irritating to the skin with symptoms of reddening, itching, and swelling.
- Sodium gluconate : May be irritating to the skin with symptoms of reddening and itching.

Eye contact

- Disodium metasilicate : Can be severely irritating and corrosive to the eyes resulting in burning, reddening, swelling of the eye and surrounding tissue and possibly permanent injury to the cornea.
- Sodium octanoate : Can be irritating to the eyes with symptoms of reddening, itching, stinging, and swelling.
- Sodium gluconate : Is expected to be irritating, with symptoms of itching and reddening.

Carcinogenicity

The components of this product are not listed by NTP, IARC or regulated as a carcinogen by OSHA.

SECTION 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.

SECTION 5. FIRE-FIGHTING MEASURES

- Special protective equipment for fire-fighters : Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

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Additional advice : Product is not combustible.

SECTION 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.

SECTION 7. HANDLING AND STORAGE**Handling**

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

Storage

Advice on common storage : Store away from strong acids and strong oxidizing agents (e.g. sodium hypochlorite).
Requirements for storage areas and containers : Keep container tightly closed. Protect from direct sunlight.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure controls**

Hygiene measures : Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.
Respiratory protection : Under normal conditions of use, respirator protection is not required. If respirators are used, institute a program in accordance with OSHA standard 29CFR1910.134 or Canada CSA Standard Z94.4-02.
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 glasses.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid.
Colour	:	Colourless.
Odour	:	Odourless.
Relative density	:	1.064
pH (25 °C, 77 °F)	:	> 13
Melting point/range	:	< 0 °C (< 32 °F)
Boiling point/range	:	> 100 °C (> 212 °F)
Flash point	:	> 93.33 °C (> 199.99 °F)
VOC content	:	0.0 %
		VOC content excluding water

SECTION 10. STABILITY AND REACTIVITY

Stability	:	The product is stable under normal conditions of storage and use.
Hazardous decomposition products	:	None
Conditions to avoid	:	Avoid generating airborne dust. Remove all chemicals and rinse the processing tanks thoroughly with water before using any cleansing products.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

- Disodium metasilicate : LD50 rat 1,153 mg/kg
- Sodium octanoate : No data available
- Sodium gluconate : LD50 rat > 5,000 mg/kg

Acute inhalation toxicity

- Sodium octanoate : No data available

Acute dermal toxicity

- Disodium metasilicate : > 5,000 mg/kg
- Sodium octanoate : No data available

Acute toxicity (other route)

- Sodium octanoate : No data available

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Skin irritation

- Sodium octanoate : No data available

Eye irritation

- Sodium octanoate : No data available

Sensitization

- Sodium octanoate : No data available

Repeated dose toxicity

- Sodium octanoate : No data available

Carcinogenicity

- Sodium octanoate : No carcinogenic effects observed at the doses tested.

Toxicity to reproduction

- Sodium octanoate : No data available

Mutagenicity

- Sodium octanoate : There is no evidence for mutagenicity from studies in animals.

Teratogenicity

- Sodium octanoate : No data available

Other information

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

SECTION 12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)****Biodegradation**

- Sodium octanoate : No data available

Physico-chemical removability

- Sodium octanoate : No data available

Bioaccumulation

- Sodium octanoate : No data available

Ecotoxicity effects

Ecotoxicity data specific for individual ingredients in their pure state:

Toxicity to fish

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- Sodium octanoate : No data available

Toxicity to daphnia

- Sodium octanoate : No data available

Toxicity to algae

- Sodium octanoate : No data available

Toxicity to bacteria

- Sodium octanoate : No data available

There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS**Waste disposal methods**

Waste disposal should be in accordance with existing federal, state and local environmental control laws. Discharge to sewer may require approval of permitting authority and may require pretreatment.

Empty containers.

Recondition or dispose of empty container in accordance with governmental regulations.

US. RCRA Hazardous Waste Classification (40 CFR 261)

When discarded in its purchased form, this product meets the criteria of corrosivity, and should be managed as a hazardous waste (EPA Hazardous Waste Number D002).

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION**US. Toxic Substances Control Act (TSCA)**

- Disodium metasilicate : y (positive listing)
- Disodium metasilicate : y (positive listing)
- Sodium octanoate : y (positive listing)
- Sodium octanoate : y (positive listing)
- Sodium gluconate : y (positive listing)
- Sodium gluconate : y (positive listing)
- Water : y (positive listing)

US. OSHA Classification

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This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

US. SARA 311/312 Hazard Categories

Acute Health Hazard.

US. California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

State Right-to-Know Information

The following chemicals are specifically listed by individual states. Other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

US. Massachusetts, New Jersey, Pennsylvania or Rhode Island Right to Know Substance Lists :
See Section 2.

Canadian WHMIS Classification

E : Corrosive Material

Canadian Environmental Protection Act (CEPA)

- Disodium metasilicate : DSL : y (positive listing)
- Sodium octanoate : DSL : y (positive listing)
- Sodium gluconate : DSL : y (positive listing)
- Water : DSL : y (positive listing)

SECTION 16. OTHER INFORMATION

US. HMIS Rating

Health	:	2
Flammability	:	0
Reactivity	:	0

(0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe)

US. NFPA 704M Rating

Health	:	2
Flammability	:	0
Reactivity	:	0

(0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme)

Agfa Corporation's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Agfa Corporation as a customer service.

This MSDS is replacing Agfa MSDS number 990G.005

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|| Section(s) changed compared to the previous issue: 1, 11, 12, 16 1, 16

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