

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

Product Information

Product name : G335, PART A
Use of the : Photographic fixing concentrate
Substance/Preparation

Company/Undertaking Identification

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2. 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.

Aqueous photographic fixing concentrate, mainly consisting of:

Hazardous components

• Acetic acid	Concentration [%] :	1.0	-	5.0
CAS-No.	: 64-19-7			
Index-No.	: 607-002-00-6			
EINECS-No.	: 200-580-7			
Symbol(s)	: C			
R-phrase(s)	: R10, R35			

Other

• Ammonium thiosulphate	Concentration [%] :	40.0	-	60.0
• Water	Concentration [%] :	30.0	-	40.0
• Sodium sulphite	Concentration [%] :	1.0	-	5.0
• Sodium acetate	Concentration [%] :	1.0	-	5.0
• Boric acid	Concentration [%] :	1.0	-	5.0

3. HAZARDS IDENTIFICATION

This preparation does not meet any of the criteria for classification as dangerous as defined by EC Directives and transposed into national legislation.

4. FIRST AID MEASURES

Skin contact : Wash immediately with plenty of water and soap. If symptoms persist, seek medical advice.
Eye contact : Rinse with plenty of water. If necessary, 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

Specific hazards during fire fighting : In case of fire, thermal decomposition with emission of hazardous fumes is possible (e.g. sulphur dioxide and ammonia).
Further information : Product is not combustible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : See section 8.
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, strong alkalis and strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values

Components	CAS-No.	Values	Type	Revision date	Basis
Acetic acid	64-19-7	25 mg/m3	TWA	2002	EH40 OES
		37 mg/m3	STEL	2002	EH40 OES
		25 mg/m3	TWA	05 2001	EU ELV

Exposure controls

Engineering measures : Ventilation should be sufficient so that any applicable occupational exposure limits are not exceeded.
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

SAFETY DATA SHEET
according to EC directive 93/112/EC



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Eye protection	: made of: natural latex.
Hygiene measures	: Safety glasses.
	: Observe normal precautions when handling chemicals.
	Avoid inhaling vapour. Keep away from foodstuffs, drinks and tobacco.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	: Liquid
Colour	: Colourless
Odour	: Slightly pungent smell

Safety data

pH (25 °C)	: 5.4
Melting point/range	: < 0 °C
Boiling point/range	: > 100 °C
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Relative density (20 °C)	: 1.343
Solubility/qualitative	: Miscible with water at all ratios.
Relative vapour density	: Not applicable

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 acids, strong alkalis and strong oxidizing agents. Remove all chemicals and rinse the processing tanks thoroughly with water before using any cleansing products.
Hazardous decomposition products	: Sulphur dioxide and ammonia

11. TOXICOLOGICAL INFORMATION

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

• Acetic acid	: LD50 rat	3,310 mg/kg
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Acute dermal toxicity

• Acetic acid	: LD50 rabbit	1,110 mg/kg
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Other information

In normal conditions of use, sulphur dioxide may be set free in concentrations well below the threshold limit value (TLV) of 2 ppm. Asthmatic individuals, however, may possibly be sensitive to concentrations as low as 0.1 ppm.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Pending the development of criteria for evaluating impact of a chemical preparation, ecological information referring to the most important individual ingredients present in this preparation is given here merely as an indication. The effective environmental impact of this preparation should of course be assessed taking into account the actual concentration of each individual ingredient in this preparation.

Toxicity to fish

- Acetic acid : Species: Pimephales promelas (fathead minnow)
Dose: 88.00 mg/l/ 96 h
Species: Carassius auratus (goldfish)
Dose: 423.00 mg/l/ 24 h

Toxicity to daphnia

- Acetic acid : Species: Daphnia magna (water flea)
Dose: 47.00 mg/l/ 24 h

Further information on ecology

Additional ecological information : 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

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 : 09 01 04 (fixer solutions).

14. TRANSPORT INFORMATION

Further Information

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

This product is not to be labelled as a dangerous substance or preparation as defined by EC Directives and transposed into national legislation.

16. OTHER INFORMATION

Section(s) changed compared to the previous issue: 1, 2, 6, 8

Further information

Full text of R-phrases referred to under Sections 2 and 3:

R10	Flammable.
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.