

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Product name:** G333c

**Product No.:** 000001014437

**Synonyms, Trade Names:** IMAGE MASTER FIXER,  
SAPHIRA FILM RA FIXER, REPRO G333C FIXER

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** Photographic fixing concentrate

**Uses advised against:** Reserved for industrial and professional use.

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Agfa Graphics NV  
Septestraat 27  
2640 Mortsel  
Belgium

**Telephone:** +32 3 4442111

**Fax:** +32 3 4447094

**E-mail:** electronic.sds@agfa.com

#### National Supplier

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

**Telephone:** +44 (0)20 8 231 4616

**Fax:** +44 (0)20 8 231 4951

**E-mail:** electronic.sds@agfa.com

### 1.4 Emergency telephone number:

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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Not classified

### 2.2 Label Elements

not applicable

**Supplemental label information**

EUH210: Safety data sheet available on request.

**2.3 Other hazards**

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**General information:** No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Acetic acid	1 - <3%	64-19-7	200-580-7	01-2119475328-30-XXXX	No data available.	#

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# # This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Classification**

Chemical name	Classification	Notes
Acetic acid	Skin Corr.: 1A: H314 Flam. Liq.: 3: H226	Note B

CLP: Regulation No. 1272/2008.

**SECTION 4: First aid measures**

**General:** CAUTION! First aid personnel must be aware of own risk during rescue!

**4.1 Description of first aid measures**

**Inhalation:** Move to fresh air.

**Eye contact:** Rinse immediately with plenty of water.

**Skin Contact:** Remove contaminated clothing and wash the skin thoroughly with soap and water after work.

**Ingestion:** Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** See section 11 of the SDS for additional information on health hazards.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Hazards:** See section 11 of the SDS for additional information on health hazards.

**Treatment:** Get medical attention if symptoms occur.

## SECTION 5: Firefighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

**5.1 Extinguishing media Suitable extinguishing media:** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2 Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.

**5.3 Advice for firefighters Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Put on protective equipment before entering danger area.

**6.2 Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

**6.3 Methods and material for containment and cleaning up:** Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

**6.4 Reference to other sections:** For personal protection see section 8. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage:

**7.1 Precautions for safe handling:** Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**7.2 Conditions for safe storage, including any incompatibilities:** Store away from incompatible materials.

**7.3 Specific end use(s):** Reserved for industrial and professional use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

#### Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Acetic acid	TWA	10 ppm    25 mg/m <sup>3</sup>	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU (12 2009)

#### Biological Limit Values

None.

### 8.2 Exposure controls

**Appropriate Engineering Controls:** Provide adequate ventilation.

#### Individual protection measures, such as personal protective equipment

**General information:** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Follow training instructions when handling this material.

**Eye/face protection:** Safety goggles. EN 166.

#### Skin protection

##### Hand Protection:

Protective gloves should be used if there is a risk of direct contact or splash.(EN374) Chemical resistant gloves required for prolonged or repeated contact. Butyl rubber. Glove thickness: > 0.70 mm Break-through time: > 480 min Risk of splashes: Nitrile rubber. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**Other:** Safety clothes : long sleeved clothing EN13688

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator (EN14387). Seek advice from local supervisor.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Environmental Controls:** Do not empty into drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Colourless.
<b>Odor:</b>	Nearly odourless
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	5.3 (25 °C)
<b>Freezing point:</b>	< 0 °C
<b>Boiling Point:</b>	> 100 °C
<b>Flash Point:</b>	No data available.
<b>Evaporation Rate:</b>	No data available
<b>Flammability (solid, gas):</b>	not auto-flammable
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available
<b>Vapor density (air=1):</b>	aqueous solution
<b>Relative density:</b>	1.282 (20 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Miscible with water.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	No data available
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

## 9.2 Other information

**VOC Content:** EC Directive 2004/42: 10.4 g/l ~1.04 % (calculated)

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Material is stable under normal conditions.
<b>10.2 Chemical Stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	No data available.
<b>10.4 Conditions to avoid:</b>	Avoid heat or contamination.
<b>10.5 Incompatible Materials:</b>	None known.
<b>10.6 Hazardous Decomposition Products:</b>	By heating and fire, harmful vapors/gases may be formed.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

- Inhalation:** Inhalation is the primary route of exposure. In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
- Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.
- Skin Contact:** Moderately irritating to skin with prolonged exposure.
- Eye contact:** Eye contact is possible and should be avoided.

**11.1 Information on toxicological effects**

**Acute toxicity**

**Oral**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)**

Acetic acid LD 50 (Rat): 3,310 mg/kg

**Dermal**

**Product:** ATEmix: 101,923.08 mg/kg

**Specified substance(s)**

Acetic acid LD 50 (Rabbit): 1,060 mg/kg

**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)**

Acetic acid LC 50 (Rat, 4 h): 11.4 mg/l

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s)**

Acetic acid NOAEL (Rat(Male), Oral, 8 Weeks): 290 mg/kg

**Skin Corrosion/Irritation:**

**Product:** No data available.

**Specified substance(s)**

Acetic acid Strongly Irritating

**Serious Eye Damage/Eye Irritation:**

**Product:** No data available.

**Specified substance(s)**

Acetic acid in vivo (Rabbit, 1 d): Category 1

**Respiratory or Skin****Sensitization:**

**Product:** No data available.

**Specified substance(s)**

Acetic acid No data available.

**Germ Cell Mutagenicity****In vitro**

**Product:** No data available.

**Specified substance(s)**

Acetic acid No data available.

**In vivo**

**Product:** No data available.

**Specified substance(s)**

Acetic acid No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

Acetic acid No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

Acetic acid No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specified substance(s)**

Acetic acid No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Specified substance(s)**

Acetic acid No data available.

**Aspiration Hazard**

**Product:** No data available.

**Specified substance(s)**

Acetic acid

No data available.

**SECTION 12: Ecological information****12.1 Toxicity****Acute toxicity****Fish****Product:** No data available.**Specified substance(s)**

Acetic acid LC 50 (Danio rerio, 96 h): &gt; 1,000 mg/l (Static) experimental result

**Aquatic Invertebrates****Product:** No data available.**Specified substance(s)**Acetic acid EC 50 (48 h): > 300.82 mg/l (Static) experimental result  
NOAEL (48 h): 2,500 mg/l (Static) experimental result**Chronic Toxicity****Fish****Product:** No data available.**Specified substance(s)**

Acetic acid No data available.

**Aquatic Invertebrates****Product:** No data available.**Specified substance(s)**

Acetic acid No data available.

**Toxicity to Aquatic Plants****Product:** No data available.**Specified substance(s)**

Acetic acid No data available.

**12.2 Persistence and Degradability****Biodegradation****Product:** No data available.**Specified substance(s)**

Acetic acid No data available.

**BOD/COD Ratio****Product** No data available.



**Specified substance(s)**

Acetic acid No data available.

**12.3 Bioaccumulative Potential**

**Product:** No data available.

**Specified substance(s)**

Acetic acid No data available.

**12.4 Mobility in Soil:** No data available.

**Known or predicted distribution to environmental compartments**

Acetic acid No data available.

**12.5 Results of PBT and vPvB assessment:** Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria

Acetic acid No data available.

**12.6 Other Adverse Effects:** No data available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**General information:** Disposal considerations (including disposal of contaminated containers or packaging) Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local laws. Wash before disposal. Dispose to controlled facilities.

Since emptied containers retain product residue, follow label warnings even after container is emptied. Since emptied containers retain product residue, follow label warnings even after container is emptied.

**SECTION 14: Transport information**

**ADR**

- 14.1 UN Number: Not regulated.
- 14.2 UN Proper Shipping Name: Not regulated.
- 14.3 Transport Hazard Class(es) Not regulated.
- 14.4 Packing Group: Not regulated.
- 14.5 Environmental Hazards: Not regulated.
- 14.6 Special precautions for user: Not regulated.

**RID**

- 14.1 UN Number: Not regulated.
- 14.2 UN Proper Shipping Name: Not regulated.
- 14.3 Transport Hazard Class(es) Not regulated.
- 14.4 Packing Group: Not regulated.

14.5 Environmental Hazards: Not regulated.  
 14.6 Special precautions for user: Not regulated.

**IMDG**

14.1 UN Number: Not regulated.  
 14.2 UN Proper Shipping Name: Not regulated.  
 14.3 Transport Hazard Class(es): Not regulated.  
 14.4 Packing Group: Not regulated.  
 14.5 Environmental Hazards: Not regulated.  
 14.6 Special precautions for user: Not regulated.

**IATA**

14.1 UN Number: Not regulated.  
 14.2 UN Proper Shipping Name: Not regulated.  
 14.3 Transport Hazard Class(es): Not regulated.  
 14.4 Packing Group: Not regulated.  
 14.5 Environmental Hazards: Not regulated.  
 14.6 Special precautions for user: Not regulated.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** not applicable.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**EU Regulations**

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none

**Regulation (EC) No. 689/2008 Import and export of dangerous chemicals:** none

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:**  
 none

**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:**  
 none

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:** none

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:** none

**Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:**

Chemical name	CAS-No.	Concentration
Acetic acid	64-19-7	1.0 - 10%

**EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:**  
none

**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:**

Chemical name	CAS-No.	Concentration
Acetic acid	64-19-7	1.0 - 10%

**15.2 Chemical safety assessment:**

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

**Revision Information:** Not relevant.Not relevant.

**Key literature references and sources for data:** Safety Data Sheet from the supplier.  
ECHA  
This safety data sheet contains an ES (if applicable) in an integrated form. Contents of the exposure scenario have been included (if applicable) into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet. The downstream user has to check whether his uses are covered by the integrated ES information in this safety data sheet.

Safety Data Sheet from the supplier.  
ECHA

### Wording of the H-statements in section 2 and 3

H226 Flammable liquid and vapor.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

**Training information:** No data available.

**Other information:** This Safety Data Sheet is compiled in accordance with European Directives and corresponding national legislation.

**Issue Date:** 21.09.2016

**SDS No.:**

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.