

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH Annex II) and its amendments



G333p

SUBID : 00000004811

Version 9
Revision Date 21.04.2015

Print Date 15.06.2015

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

1.1 Identification of the substance or mixture:

Product name : G333p
REACH Registration No : Registration numbers of the individual components: see section 3.2, if applicable.

1.2 Use of the substance/mixture:

Identified relevant uses : Photographic fixing mixture

1.3 Company/undertaking identification

Agfa-Gevaert Ltd.
Vantage West
Great West Road
Brentford, Middlesex TW8 9AX
United Kingdom
Tel. : +44 (0)20 8 231 4616
Fax : +44 (0)20 8 231 4951
E-mail: electronic.sds@agfa.com

1.4 Emergency telephone

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

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

| Regulation(EC) No 1272/2008 (CLP) | |
|-----------------------------------|--|
| • Hazard classes | Serious eye damage |
| Hazard categories | Category 1 |
| Hazard statements | H318 |
| Classification procedure | According the classification criteria of CLP Regulation (EC) No 1272/2008. |

| 67/548/EEC or 1999/45/EC | |
|--------------------------|----------|
| Hazards characteristics | Irritant |
| R-phrases | R41 |

Full text of each relevant R and H phrase is listed in section 16.

2.2 Label elements:

Hazardous components which must be listed on the label :

- CAS-No. : 7681-57-4 Sodium disulphite

Symbol(s)



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Signal word : DANGER
Hazard statements : H318 Causes serious eye damage.
Precautionary statements: P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.
Precautionary response P310 Immediately call a POISON CENTER/doctor/#

2.3 Other hazards:

This product does not meet the criteria concerning PBT or vPvB substances as described in Annex XIII of the REACH regulation (1907/2006 EC)

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture related information:

Powdered photographic fixing mixture, mainly consisting of:

3.2 Hazard 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 2.1.

Hazardous components in the meaning of regulation(EC) No 1272/2008 (CLP)

- Sodium disulphite Concentration [%] : 10.0 - 20.0
CAS-No. : 7681-57-4
Index-No. : 016-063-00-2
EINECS-No. : 231-673-0
REACH Registration No : 01-2119531326-45-0002
Hazard classes : Acute toxicity Oral, Serious eye damage
Hazard categories : Category 4, Category 1
Hazard statements : H302, H318
- Polyglycol Concentration [%] : 1.0 - 5.0
CAS-No. : 25322-68-3
REACH Registration No : 01-2119958801-32-XXXX
Hazard classes : Specific target organ toxicity - single exposure
Hazard categories : Category 3
Hazard statements : H335

Hazardous components in the meaning of 67/548/EEC or 1999/45/EC

- Sodium disulphite Concentration [%] : 10.0 - 20.0
CAS-No. : 7681-57-4
Index-No. : 016-063-00-2
EINECS-No. : 231-673-0
Symbol(s) : Xn
R-pharse(s) : R22, R31, R41
- Polyglycol Concentration [%] : 1.0 - 5.0
CAS-No. : 25322-68-3

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Components with a community workplace exposure limit

- Sodium disulphite
- Polyglycol

3.3 Remark:

Full text of each relevant R and H phrase is listed in section 16.

4. FIRST AID MEASURES

4.1 Description of 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.

4.2 Most important symptoms and effects:

- Symptoms : Risk of serious damage to eyes.

4.3 Indication of immediate medical attention and special treatment needed:

- General advice : Call a physician immediately.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media : All extinguishing media are suitable.
- Extinguishing media which must not be used for safety reasons : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:

- 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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

5.3 Advice for fire-fighters:

- Special protective equipment for fire-fighters : Regular fire intervention clothes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

- Personal precautions : Avoid formation of dust. Cleanup personnel must use

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Additional advice : appropriate personal protective equipment.
: Wash away residues with plenty of water. Observe normal precautions when handling chemicals.

6.2 Environmental precautions:

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

6.3 Methods and material for containment and cleaning up:

Methods for cleaning up : Collect large spills into a properly labelled and sealable container. Prevent release into the drain, soil or surface water.

6.4 Reference to other sections:

For waste disposal see section 13.
For personal protection see section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Advice on safe handling : Avoid dust formation.
Hygiene measures : Observe normal precautions when handling chemicals. Avoid generating airborne dust. Avoid inhaling dust. Keep away from foodstuffs, drinks and tobacco. Employees should wash their hands and face before eating, drinking, or using tobacco products.
Advice on protection against fire and explosion : No special protective measures against fire and explosion required.

7.2 Conditions for safe storage:

Requirements for storage areas and containers : Keep container tightly closed. Protect from direct sunlight.
Further information on storage conditions : Keep container in a well-ventilated place.
Advice on common storage : Store away from strong acids, strong alkalis and strong oxidizing agents.

7.3 Specific end use:

This substance is used only by trained professionals under restricted conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

8.1.1 Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

8.1.1.1 Occupational exposure limits:

Air limit values

- Sodium disulphite

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| Basis | Revision Date | Value | Type |
|----------|---------------|---------|------|
| EH40 WEL | 2005 | 5 mg/m3 | TWA |

Biological limit values

We are not aware of any national exposure limit.

8.1.1.2 Additional exposure limits under the conditions of use:

No other exposure limits applicable.

8.1.1.3 DNEL/DMEL and PNEC-values:

DNEL

No Chemical Safety Report performed. No DNEL/DMEL value determined.

PNEC

No Chemical Safety Report performed. No PNEC value determined.

8.2 Exposure controls:

Occupational exposure controls:

➤ Instruction measures to prevent exposure:

Employees should wash their hands and face before eating, drinking, or using tobacco products. Keep away from foodstuffs, drinks and tobacco.

➤ Technical measures to prevent exposure:

Ensure adequate ventilation.

➤ Personal measures to prevent exposure:

- Respiratory protection : Use dust mask if necessary.
- Hand protection : Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butylrubber (thickness \geq 0.70 mm, breakthrough time > 480 min).(EN 374). The use of protective gloves should conform to the specifications of EC directive 89/686/EC and the resultant standard EN374.
Additional advice: The data are based on own tests, literature data and information of glove manufacturers or derived from similar substances. Because several factors may influence these properties (eg temperature), one should take into account the fact that the life of a chemical gloves in practice may be considerably shorter than indicated by the permeation test. The high diversity of types of use are prescribed by the manufacturer.
- Eye protection : Safety goggles. EN 166.
- Body Protection : Safety clothes.
- Personal protective equipment : Observe normal precautions when handling chemicals.

Environmental exposure controls:

Do not release into drain. Collect for removal by a licensed waste contractor. Effluent regulations/discharge/treatment/contents may vary from one area to another. Please consult the

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local regulations regarding the disposal of this material.

| EU Directive | Status |
|---------------------------------------|-------------|
| European Directive 2000/60/EC (water) | not on list |
| European Directive 1996/62/EC (air) | not on list |

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties:

9.1.1 Appearance:

State of matter : solid
Form : Powder form.
Color : White.
Odor : Slightly pungent smell
Odor threshold : No data available

9.1.2 Important health, safety and environmental information:

pH (25 °C) : 5.47 Method: Literature.
Melting point/range : No data available
Boiling point/range : No data available
Flash point : > 93.3 °C
Not combustible.
Autoignition temperature : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Relative density (20 °C) : 1.073 Method: Literature.
Density : No data available
Solubility/qualitative : Readily soluble in water.
Water solubility : soluble
Partition coefficient (n-octanol/water) : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Lower explosion limit : No data available
Upper explosion limit : No data available
Evaporation rate : Not applicable
Flammability (solid, gas) : Not flammable.

9.2 Other information:

VOC content : Not applicable

10. STABILITY AND REACTIVITY

10.1 Reactivity:

Reactivity : Reactivity is not to be expected under normal conditions of temperature and pressure.

10.2 Chemical stability:

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

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10.3 Possibility of hazardous reactions:

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

10.4 Conditions to avoid:

Conditions 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.

10.5 Materials to avoid:

Materials to avoid : No data available

10.6 Hazardous decomposition products:

Hazardous decomposition products : Sulphur dioxide and ammonia

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicity data specific for individual ingredients in their pure state:

Toxicokinetics, metabolism and distribution:

No data available

Acute effects (toxicity tests):

➤ Acute Toxicity

• Sodium disulphite

| | Effect dose | Species | Value | Method |
|---|-------------|---------|-----------------|-------------------------|
| Acute oral toxicity | LD50 | rat | 1,540 mg/kg | OECD Test Guideline 401 |
| Acute dermal toxicity | LD50 | rabbit | > 2,000 mg/kg | Literature. |
| Acute inhalation toxicity | LC50 | rat | > 5.5 mg/l/ 4 h | |
| The toxicological data has been taken from products of similar composition. | | | | |

• Polyglycol

| | Effect dose | Species | Value | Method |
|---|---|---------|----------------|-------------|
| Acute oral toxicity | LD50 | rat | > 20,000 mg/kg | Literature. |
| Based on available data, the classification criteria are not met. | | | | |
| Acute dermal toxicity | LD50 | rabbit | > 20,000 mg/kg | Literature. |
| Based on available data, the classification criteria are not met. | | | | |
| Acute inhalation toxicity | Based on available data, the classification criteria are not met. | | | |

➤ Specific target organ toxicity (STOT):

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| Specific effects | Affected organs |
|---|-----------------|
| Based on available data, the classification criteria are not met. | |

➤ **Irritant and corrosive effects:**

| | Exposure time | Species | Evaluation | Method |
|--------------------------------|---|---------|------------|--------|
| Primary irritation to the skin | Based on available data, the classification criteria are not met. | | | |
| Irritation to eyes | Risk of serious damage to eyes. | | | |

➤ **Irritation to the respiratory tract:**

Based on available data, the classification criteria are not met.

➤ **Sensitisation:**

| Species | Evaluation | Method |
|---------|---|--------|
| | Based on available data, the classification criteria are not met. | |

➤ **Aspiration hazard:**

No data available

Sub-acute, sub-chronic and chronic toxicity

➤ **Repeated dose toxicity:**

No data available

➤ **Specific target organ toxicity (STOT):**

Based on available data, the classification criteria are not met.

➤ **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

- **Carcinogenicity**

Based on available data, the classification criteria are not met.

- **Mutagenicity**

Based on available data, the classification criteria are not met.

- **Genetic toxicity in vitro**

No data available

- **Genetic toxicity in vivo**

No data available

- **Teratogenicity**

Based on available data, the classification criteria are not met.

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- Toxicity to reproduction

Based on available data, the classification criteria are not met.

➤ Summarised evaluation of the CMR properties:

Carcinogenicity : Based on available data, the classification criteria are not met.
Mutagenicity : Based on available data, the classification criteria are not met.
Teratogenicity : Based on available data, the classification criteria are not met.
Toxicity to reproduction : Based on available data, the classification criteria are not met.

Experiences made in practice:

- Sodium disulphite
Harmful if swallowed.
- Polyglycol
Health injuries are not known or expected under normal use.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

| | Effect dose | Exposure time | Species | Value |
|----------------------|-------------------|---------------|---------|-------|
| Toxicity to fish | No data available | | | |
| Toxicity to daphnia | No data available | | | |
| Toxicity to algae | No data available | | | |
| Toxicity to bacteria | No data available | | | |

12.2 Persistence and degradability:

Physico-chemical removability

No data available

Chemical Oxygen Demand (COD)

No data available

Adsorbed organic bound halogens (AOX)

Product does not contain any organic halogens.

Biodegradation

No data available

Biochemical Oxygen Demand (BOD)

No data available

12.3 Bioaccumulative potential:

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Partition coefficient (n-octanol/water)

No data available

Bioconcentration factor (BCF)

No data available

12.4 Mobility in soil:

No information available.

Henry's constant

| Value | Temperature | Method |
|-------|-------------|---------------------------|
| | | No information available. |

Transport between environmental compartments

No data available

12.5 Results of PBT and vPvB assessment:

This product does not meet the criteria concerning PBT or vPvB substances as described in Annex XIII of the REACH regulation (1907/2006 EC)

12.6 Other adverse effects:

This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer. Avoid infiltration in to drinking supplies, waste water or soil. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

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.

Empty containers.

As the packaging can be contaminated with product residus, please observe the warnings of the label even when the container is empty. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

For waste resulting from the expired product, it is recommended to use European Waste Code : 09 01 04 (fixer solutions).

14. TRANSPORT INFORMATION

Not regulated according to ADR.
Not regulated according to ADNR.
Not regulated according to RID.

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Not regulated according to IMO/IMDG.
Not regulated according to ICAO/IATA aircraft only.
Not regulated according to ICAO/IATA passenger and cargo aircraft.

15. REGULATORY INFORMATION

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

Authorisation and/or restriction on use

Authorisation : No
Restriction on use : Not listed on EU. REACH, Annex XVII, Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures & articles (Reg 1907/2006/EC, as amended)

Other EU regulations

Does not fall under specific EU-Regulations.

15.2 Chemical Safety Assessment

No Chemical Safety Report needed according REACH.

16. OTHER INFORMATION

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

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

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

R22 Harmful if swallowed.
R31 Contact with acids liberates toxic gas.
R41 Risk of serious damage to eyes.

Further information

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.

Sources of key data used to compile the datasheet

Handbuch der gefährlichen Güter, Hommel.
The Dictionary of Substances and their Effects, Royal Society of Chemistry.

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Gefährliche Chemische Reaktionen, L.Roth und U.Weller.
Handbuch der Umweltgifte, Dauderer.
Chemiekaarten, latest version.
Safety Data Sheet from the supplier.
IUCLID Test data. 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.

Abbreviations

| | |
|-----------|---|
| ADR: | Accord européen relatif au transport international des marchandises Dangereuses par Route |
| ADNR: | Accord européen relatif au transport international des marchandises Dangereuses par la Rhin |
| AGW: | Arbeitsplatzgrenzwerte (GE) |
| ATEmix: | Acute toxicity estimate of the mixture |
| CLP: | Classification, Labelling and Packaging of substances and mixtures |
| CMR: | Carcinoge |
| DNEL: | Derived No Effect Level |
| EC0: | Effective Concentration 0% |
| EC5: | Effective Concentration 5% |
| EC10: | Effective Concentration 10% |
| EC50: | Median Effective Concentration |
| EC100: | Effective Concentration 100% |
| EH40 WEL: | Workplace Exposure Limit (UK) |
| IATA: | International Air Transport Association |
| ICAO: | International Civil Aviation Organization |
| IC50: | inhibitory concentration 50% |
| IMDG: | International Maritime Dangerous Goods |
| IMO: | International Maritime Organization |
| IUCLID: | International Uniform Chemical Information Database |
| LC50: | Lethal Concentration 50% |
| LC100: | Lethal Concentration 100% |
| LOAEL: | Lowest Observed Adverse Effect Level |
| LDL0 | Lethal Dose (minimum found to be lethal) |
| LD50: | Lethal Dose 50% |
| MAC: | Maximaal Aanvaardbare Concentratie (NL) |
| MAK: | Maximale Arbeitsplatz-Konzentration |
| NOAEL: | No Observed Adverse Effect Level |
| NOEL: | No Observed Effect Level |
| NOEC: | No Observed Effect Concentration |
| OEL: | Occupational Exposure Limit |
| PBT: | Persistent, Bioaccumulative and Toxic substance |
| PNEC: | Predicted No Effect Concentration |
| REACH: | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID: | Regulations concerning the International Transport of Dangerous Goods by Rail |
| STEL: | Short Term Exposure Limit |
| TLV: | Threshold Limit Value |
| TRGS900: | Arbeitsplatzgrenzwerte (GE) |
| TWA: | Time Weighted Average |
| VOC: | Volatile Organic Compound |
| vPvB: | very Persistent and very Bioaccumulative substance |

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