

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: G328

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-Gevaert NV
Septestraat 27
2640 Mortsel
Belgium

Telephone: +32 3 4445501
Fax: +32 3 4445503
E-mail: electronic.sds@agfa.com

National Supplier

Agfa NV - UK Branch
Units 1 & 2 Ashbourne Court,
Manners Industrial Estate
DE7 8EF Ilkeston
United Kingdom

Telephone: +44 (0)20 8 231 4616
Fax: +44 (0)20 8 231 4951

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

SAFETY DATA SHEET

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

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Acetic acid	3 - <5%	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).

This substance is listed as SVHC

Classification

Chemical name	Classification	Notes
Acetic acid	Flam. Liq.: 3: H226; Flam. Liq.: 3: H226; Skin Corr.: 1A: H314; Skin Corr.: 1A: H314; Acute Tox.: 4: H312; Acute Tox.: 5: H303; Eye Dam.: 1: H318; Eye Dam.: 1: H318;	Note B

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur.

4.1 Description of first aid measures

Inhalation: Move to fresh air.

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

Eye contact: Rinse immediately with plenty of water.

Ingestion: Rinse mouth thoroughly.

Personal Protection for First-aid Responders: CAUTION! First aid personnel must be aware of own risk during rescue! See Section 8 of the SDS for Personal Protective Equipment.

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: Treat symptomatically.

SECTION 5: Firefighting measures

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

5.1 Extinguishing media

SAFETY DATA SHEET

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

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.
6.1.1 For non-emergency personnel:	Use personal protective equipment.
6.1.2 For emergency responders:	Warn everybody of potential hazards and evacuate if necessary. Use personal protective equipment.
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:	Absorb with sand or other inert absorbent. Stop the flow of material, if this is without risk. Transfer to a container for disposal.
6.4 Reference to other sections:	See Section 8 of the SDS for Personal Protective Equipment. 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	
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SAFETY DATA SHEET

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Chemical name	Type	Exposure Limit Values	Source
Acetic acid	TWA	10 ppm 25 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (08 2018)
	STEL	20 ppm 50 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (08 2018)
	TWA	10 ppm 25 mg/m ³	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (12 2009)
	STEL	20 ppm 50 mg/m ³	EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, as amended (02 2017)
	TWA	10 ppm 25 mg/m ³	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended (2014)
	STEL	20 ppm 50 mg/m ³	EU. Scientific Committee on Occupational Exposure Limit Values (SCOELs), European Commission - SCOEL, as amended (2014)

DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Acetic acid	General population	Eyes	Local effect;	No data available
	Workers	Eyes	Local effect;	No data available
	General population	Inhalation	Local, long-term; 25 mg/m ³	Irritating to respiratory system.
	Workers	Inhalation	Local, short-term; 25 mg/m ³	Irritating to respiratory system.
	Workers	Inhalation	Local, long-term; 25 mg/m ³	Irritating to respiratory system.
	General population	Inhalation	Local, short-term; 25 mg/m ³	Irritating to respiratory system.
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)

PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
Acetic acid	soil	0.47 mg/kg	
	freshwater sediment	11.36 mg/kg	
	Aquatic (marine water)	0.306 mg/l	
	Aquatic (freshwater)	3.058 mg/l	
	Marine sediments	1.136 mg/kg	
	Sewage treatment plant	85 mg/l	

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.

SAFETY DATA SHEET

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

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 (EN374), Glove thickness: > 0.35 mm, Break-through time: > 240 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.
Skin and Body Protection:	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

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Mild pungent
Odor Threshold:	No data available.
pH:	5.5 (25 °C)
Freezing point:	< 0 °C
Boiling Point:	> 100 °C
Flash Point:	No data available.
Evaporation Rate:	No data available.
Flammability (solid, gas):	Not flammable.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	No data available.
Relative density:	1.3690 (20 °C)
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable
Self Ignition Temperature:	Not applicable
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.

SAFETY DATA SHEET

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

Explosive properties: No data available.**Oxidizing properties:** No data available.**9.2 Other information****VOC Content:** EC Directive 1999/13: 0 g/l ~0 % (calculated)
EC Directive 2004/42: 31 g/l ~3.1 % (calculated)**SECTION 10: Stability and reactivity****10.1 Reactivity:** Material is stable under normal conditions.**10.2 Chemical Stability:** Material is stable under normal conditions.**10.3 Possibility of hazardous reactions:** Not known.**10.4 Conditions to avoid:** Avoid heat or contamination.**10.5 Incompatible Materials:** None known.**10.6 Hazardous Decomposition Products:** 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.**Skin Contact:** Moderately irritating to skin with prolonged exposure.**Eye contact:** Eye contact is possible and should be avoided.**Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.**11.1 Information on toxicological effects****Acute toxicity****Oral****Product:** Not classified for acute toxicity based on available data.**Components:**
Acetic acid No data available.**Dermal****Product:** ATEmix 34,193.55 mg/kg**Components:**
Acetic acid LD 50 (Rabbit): 1,060 mg/kg**Inhalation****Product:** Not classified for acute toxicity based on available data.**Components:**
Acetic acid LC 50 (Rat, 4 h) 11.4 mg/l

SAFETY DATA SHEET

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

Repeated dose toxicity

Product: No data available.

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

Skin Corrosion/Irritation:

Product: No data available.

Components:
Acetic acid No data available.

Serious Eye Damage/Eye Irritation:

Product: No data available.

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

Respiratory or Skin Sensitization:

Product: No data available.

Components:
Acetic acid No data available.

Germ Cell Mutagenicity**In vitro**

Product: No data available.

Components:
Acetic acid No data available.

In vivo

Product: No data available.

Components:
Acetic acid No data available.

Carcinogenicity

Product: No data available.

Components:
Acetic acid No data available.

Reproductive toxicity

Product: No data available.

Components:
Acetic acid No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:
Acetic acid No data available.

SAFETY DATA SHEET

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

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Components:

Acetic acid No data available.

Aspiration Hazard

Product: No data available.

Components:

Acetic acid No data available.

SECTION 12: Ecological information**12.1 Toxicity****Acute toxicity****Fish**

Product: No data available.

Components

Acetic acid NOAEL (Cyprinodon variegatus, 96 h): 300.82 mg/l (semi-static) Experimental result, Supporting study
LC 50 (Oncorhynchus mykiss, 96 h): > 1,000 mg/l (semi-static) Experimental result, Key study
NOAEL (Oncorhynchus mykiss, 96 h): 1,000 mg/l (semi-static) Experimental result, Key study

Aquatic Invertebrates

Product: No data available.

Components

Acetic acid EC 50 (Daphnia magna, 48 h): > 300.82 mg/l (Static) Experimental result, Key study

Toxicity to Aquatic Plants

Product: No data available.

Components

Acetic acid No data available.

Toxicity to microorganisms

Product: No data available.

Components

Acetic acid No data available.

Chronic Toxicity**Fish**

Product: No data available.

SAFETY DATA SHEET

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Components

Acetic acid No data available.

Aquatic Invertebrates

Product: No data available.

Components

Acetic acid No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components

Acetic acid No data available.

12.2 Persistence and Degradability**Biodegradation**

Product: No data available.

BOD/COD Ratio

Product No data available.

Components

Acetic acid No data available.

12.3 Bioaccumulative potential

Product: No data available.

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

Acetic acid

Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccumulative) criteria
No data available.

12.6 Other adverse effects:

Not regarded as dangerous for the environment.

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:

Wash before disposal. Dispose to controlled facilities.

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

Contaminated Packaging:

Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

SAFETY DATA SHEET

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

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

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

EU. REACH Annex XIV, Substances Subject to Authorization: none

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

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. 649/2012 Import and export of dangerous chemicals: none

SAFETY DATA SHEET

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

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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

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

Abbreviations and acronyms

Note B	Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid...%'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
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	Arbeitsplatzgrenswerte (DE)
ATEmix	Acute toxicity estimate of the mixture
CLP	Classification, Labelling and Packaging of substances and mixtures
CMR	carcinogenicity, mutagenicity and toxicity for reproduction
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 (GB)
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%

SAFETY DATA SHEET

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

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	Treshold Limit Value
TRGS900	Arbeitsplatzgrenswerte (DE)
TWA	Time Weighted Average
VOC	Volatile Organic Compound
vPvB	very Persistent and very Bioaccumulative substance

Key literature references and sources for data: 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: Follow training instructions when handling this material.

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.