

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: AVINCI 100 CYAN INK

Product No.: 000001015764

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

Identified uses: Printing ink

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 been classified according to the legislation in force.

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

Health Hazards

Skin sensitizer

Category 1

H317: May cause an allergic skin reaction.

2.2 Label Elements

Contains:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7]

and 2-methyl-2H-isothi azolin-3-one [EC no. 220-239-6] (3:1)


Signal Words: Warning

Hazard Statement(s): H317: May cause an allergic skin reaction.

Precautionary Statement
Prevention: P272: Contaminated work clothing should not be allowed out of the workplace.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

Disposal: P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

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
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3.2 Mixtures
General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamtane chloride	0.1 - <1%	51229-78-8	223-805-0426-020-3	No data available.	No data available.	
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7]	0.0015 - <0.06%	55965-84-9		No data available.	No data available.	

and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1)						
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* 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
cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	Acute Tox.: 4: H302 Flam. Sol.: 2: H228 Repr.: 2: H361d Skin Sens.: 1: H317 Skin Irrit.: 2: H315 Aquatic Chronic: 2: H411	No data available.
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1)	Skin Corr.: 1B: H314 Aquatic Acute: 1: H400 Skin Sens.: 1: H317 Acute Tox.: 3: H331 Acute Tox.: 3: H311 Acute Tox.: 3: H301 Aquatic Chronic: 1: H410	No data available.

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation: Move to fresh air.

Eye contact: Rinse immediately with plenty of water.

Skin Contact: Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

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: No data available.

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:** See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
- 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:** Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.
- 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

None of the components have assigned exposure limits.

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.\20 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.\20 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: Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin. Observe good industrial hygiene practices.

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:	Cyan
Odor:	No data available.
Odor Threshold:	No data available.
pH:	7.00
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	> 100 °C

Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Relative density:	1.122
Solubility(ies)	
Solubility in Water:	Miscible with water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Viscosity:	9.00 mm ² /s
Explosive properties:	No data available.
Oxidizing properties:	No data available.

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:	No data available.
10.4 Conditions to avoid:	Avoid heat or contamination.
10.5 Incompatible Materials:	No data available.
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.
Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Skin Contact:	May cause an allergic skin reaction.
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)**

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride

No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1)

No data available.

Dermal**Product:** Not classified for acute toxicity based on available data.**Specified substance(s)**

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride

No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1)

No data available.

Inhalation**Product:** Not classified for acute toxicity based on available data.**Specified substance(s)**

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride

No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1)

No data available.

Repeated dose toxicity**Product:** No data available.**Specified substance(s)**

cis-1-(3-chloroallyl)-3,5,7-triaza-1-

No data available.

azoniaadamantane
chloride
mixture of: 5-chloro-2-
methyl-4-isothiazolin-3-
one [EC no.247- 500-7]
and 2-methyl-2H-isothi
azolin-3-one [EC no. 220-
239-6] (3:1)

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

cis-1-(3-chloroallyl)-
3,5,7-triaza-1-
azoniaadamantane
chloride

mixture of: 5-chloro-2-
methyl-4-isothiazolin-3-
one [EC no.247- 500-7]
and 2-methyl-2H-isothi
azolin-3-one [EC no.
220-239-6] (3:1)

**Serious Eye Damage/Eye
Irritation:**

Product: No data available.

Specified substance(s)

cis-1-(3-chloroallyl)-
3,5,7-triaza-1-
azoniaadamantane
chloride

mixture of: 5-chloro-2-
methyl-4-isothiazolin-3-
one [EC no.247- 500-7]
and 2-methyl-2H-isothi
azolin-3-one [EC no.
220-239-6] (3:1)

**Respiratory or Skin
Sensitization:**

Product: May cause an allergic skin reaction.

Specified substance(s)

cis-1-(3-chloroallyl)-
3,5,7-triaza-1-
azoniaadamantane
chloride

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1) Causes sensitization.

Germ Cell Mutagenicity**In vitro**

Product: No data available.

Specified substance(s)

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1) No data available.

In vivo

Product: No data available.

Specified substance(s)

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1) No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1) No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1) No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1) No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1) No data available.

Aspiration Hazard**Product:** No data available.**Specified substance(s)**

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride

No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1)

No data available.

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

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride

No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1)

No data available.

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

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride

No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-

No data available.

239-6] (3:1)

Chronic Toxicity**Fish****Product:** No data available.**Specified substance(s)**cis-1-(3-chloroallyl)-3,5,7-
triaz-1-
azoniaadamantane
chloride

No data available.

mixture of: 5-chloro-2-
methyl-4-isothiazolin-3-
one [EC no.247- 500-7]
and 2-methyl-2H-isothi-
azolin-3-one [EC no. 220-
239-6] (3:1)

No data available.

Aquatic Invertebrates**Product:** No data available.**Specified substance(s)**cis-1-(3-chloroallyl)-3,5,7-
triaz-1-
azoniaadamantane
chloride

No data available.

mixture of: 5-chloro-2-
methyl-4-isothiazolin-3-
one [EC no.247- 500-7]
and 2-methyl-2H-isothi-
azolin-3-one [EC no. 220-
239-6] (3:1)

No data available.

Toxicity to Aquatic Plants**Product:** No data available.**Specified substance(s)**cis-1-(3-chloroallyl)-3,5,7-
triaz-1-
azoniaadamantane
chloride

No data available.

mixture of: 5-chloro-2-
methyl-4-isothiazolin-3-
one [EC no.247- 500-7]
and 2-methyl-2H-isothi-
azolin-3-one [EC no. 220-
239-6] (3:1)

No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1)

BOD/COD Ratio

Product No data available.

Specified substance(s)

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1)

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothiazolin-3-one [EC no. 220-239-6] (3:1)

12.4 Mobility in Soil:

No data available.

Known or predicted distribution to environmental compartments

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothi azolin-3-one [EC no. 220-239-6] (3:1) 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

cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride No data available.

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothi azolin-3-one [EC no. 220-239-6] (3:1) 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)\20 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.

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 MARPOL73/78 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:

Chemical name	CAS-No.	Concentration
cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	51229-78-8	0.1 - 1.0%

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.:

Chemical name	CAS-No.	Concentration
cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	51229-78-8	0.1 - 1.0%

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

Chemical name	CAS-No.	Concentration
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cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	51229-78-8	0.1 - 1.0%
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothi azolin-3-one [EC no. 220-239-6] (3:1)	55965-84-9	0 - <0.1%

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
cis-1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	51229-78-8	0.1 - 1.0%
mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no.247- 500-7] and 2-methyl-2H-isothi azolin-3-one [EC no. 220-239-6] (3:1)	55965-84-9	0 - <0.1%

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

Wording of the H-statements in section 2 and 3

- H228 Flammable solid.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H331 Toxic if inhaled.
- H361d Suspected of damaging the unborn child.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

Training information: No data available.

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

Skin Sens. 1, H317

Other information: This product is not manufactured by Agfa. The information disclosed in this Safety Data Sheet has been provided by the manufacturer.

Issue Date: 20.07.2016

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.