

ANAPURNA M CYAN G1 INK

SUBID:000001007782

Version 1
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Identification of the substance/preparation

Product name : ANAPURNA M CYAN G1 INK
 MSDS Number : 000001007782
 Use of the : Printer ink
 Substance/Preparation :
 Product code : E7NDD, E7NHM
 Business group : GS

Company/Undertaking Identification

Agfa Corporation
 100 Challenger Road
 Ridgefield Park, NJ 07660
 U.S.A.

Transport Emergency : Non-transportation
 Call CHEMTREC : +1 800 4249300
 International : +1 703 5273887
 Health Emergency Phone : +1 303 6235716
 Agfa Information Phone : +1 201 4402500

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Printer ink, mainly consisting of:

| | <u>CAS-No.</u> | <u>Concentration [%]</u> | |
|--|----------------|--------------------------|---------|
| • Oxybis(methyl-2,1-ethanediyl) diacrylate | 57472-68-1 | >= 60.0 | <= 80.0 |
| • Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- | 75980-60-8 | >= 1.0 | <= 5.0 |
| • blue organic pigment | 147-14-8 | >= 1.0 | <= 5.0 |
| • (Octahydro-4,7-methano-1H-indenediyl)bis(methylene) diacrylate | 42594-17-2 | >= 10.0 | <= 20.0 |
| • Ethyl-4-dimethylaminobenzoaat | 10287-53-3 | >= 1.0 | <= 5.0 |
| • 4-fenylbenzofenon | 2128-93-0 | >= 1.0 | <= 5.0 |
| • Dispersion agent | | >= 1.0 | <= 5.0 |

SECTION 3. HAZARDS IDENTIFICATION

The product as a whole has not been tested. This hazard information is for the individual ingredients.

Emergency Overview

Form : Liquid.
 Colour : Cyan
 Odour : Sweetish smell

WARNING !

Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.
Causes respiratory tract irritation. May cause skin burns. May cause allergic skin reaction. May cause eye burns. Maybe Harmful if swallowed.

Potential Health Effects

- Primary Routes of Entry : Skin contact. Skin Absorption Eye contact. Inhalation of vapours or mists. Accidental ingestion.
- Aggravated Medical Condition : Persons with preexisting eye, skin or respiratory tract disorders may be more susceptible to the effects of this product.

Acute health effects

Inhalation

- Oxybis(methyl-2,1-ethanediyl) diacrylate : May be irritating to the mucous membranes and the respiratory tract with symptoms of coughing and nasal discharge.
- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- : Can be irritating to the mucous membranes and respiratory tract with symptoms of coughing, sore throat and shortness of breath.
- blue organic pigment : Can cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Skin contact

- Oxybis(methyl-2,1-ethanediyl) diacrylate : Slightly toxic by skin absorption. Corrosive with symptoms of reddening, itching, swelling, burning and possible permanent damage. May cause skin sensitization with symptoms of rash, itching, hives, and swelling.
- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- : Can be irritating to the skin with symptoms of reddening, itching, and swelling.
- blue organic pigment : Can be irritating to the skin with symptoms of reddening, itching, and swelling.

Eye contact

- Oxybis(methyl-2,1-ethanediyl) diacrylate : Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.
- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- : Can be irritating to the eyes with symptoms of reddening, itching, stinging, and swelling.
- blue organic pigment : Can be irritating to the eyes with symptoms of reddening, itching, stinging, and swelling.

Ingestion

- Oxybis(methyl-2,1-ethanediyl) diacrylate : Moderately toxic by ingestion. Can cause gastrointestinal tract irritation with diarrhea, nausea, and vomiting.

Chronic health hazards

There is a possible risk of impaired fertility due to the presence of 2,4,6-trimethylbenzoyl phosphine oxide.

Carcinogenicity

No carcinogenic substances as defined by IARC, NTP and/or OSHA.

SECTION 4. 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. Take off all contaminated clothing immediately.
- Ingestion : Do not induce vomiting. Obtain medical attention.

Inhalation : Take person to fresh air. If necessary, seek medical advice.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : All extinguishing media are suitable.
Specific hazards during fire fighting : Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.
Special protective equipment for fire-fighters : Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : See section : Exposure controls / personel protection.
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 : If substance has entered a water course or sewer or contaminated soil or vegetation advise fire brigade or police.

SECTION 7. HANDLING AND STORAGE

Storage

Advice on common storage : Store away from oxidizing agents. Store away from acids. Store away from alkali.
Requirements for storage areas and containers : Keep container tightly closed. Protect from direct sunlight.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values (US)

| Components | CAS-No. | Values | Type | Revision Date | Basis |
|----------------------|----------|---------------------|------|---------------|-------|
| blue organic pigment | 147-14-8 | 1 mg/m ³ | REL | 06 1997 | NIOSH |

Exposure controls

Hygiene measures : Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.
Respiratory protection : Under normal conditions of use, respirator protection is not required. If respirators are used, institute a program in accordance with OSHA standard 29CFR1910.134 or Canada CSA Standard Z94.4-02.
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 made of: natural latex.
Eye protection : Safety glasses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------|-----------------------------|
| Form | : Liquid. |
| Colour | : Cyan |
| Odour | : Sweetish smell |
| Relative density | : 1.070 |
| pH | : Not applicable |
| Melting point/range | : < 0 °C (< 32 °F) |
| Boiling point/range | : > 100 °C (> 212 °F) |
| Flash point | : > 100 °C (> 212 °F) |
| VOC content | : 0 % |
| | VOC content excluding water |

SECTION 10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | : The product is stable under normal conditions of storage and use. |
| Hazardous decomposition products | : Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO ₂). Acids. |
| Conditions to avoid | : Avoid contact with strong oxidizing agents. Avoid contact with strong acids. Avoid contact with strong alkalis. |

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity data specific for individual ingredients in their pure state:

Acute oral toxicity

- Oxybis(methyl-2,1-ethanediyl) diacrylate : LD50 rat 4,600 mg/kg
- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- : LD50 rat > 2,000 mg/kg
- blue organic pigment : LD50 rat > 5,000 mg/kg

Acute dermal toxicity

- Oxybis(methyl-2,1-ethanediyl) diacrylate : LD50 rabbit > 2,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradation

- Oxybis(methyl-2,1-ethanediyl) diacrylate : OECD 301E
100 % after 28 d

Ecotoxicity effects

Ecotoxicity data specific for individual ingredients in their pure state:

Toxicity to fish

- Oxybis(methyl-2,1-ethanediyl) diacrylate : Species: Leuciscus idus (golden orfe)
LC50: 4.64 mg/l/ 96 h
- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- : Species: Leuciscus idus (golden orfe)
LC50: < 100.00 mg/l/ 96 h

Toxicity to daphnia

- Oxybis(methyl-2,1-ethanediyl) diacrylate : Species: Daphnia magna
EC50: 22.3 mg/l/ 48 h
- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- : Species: Daphnia magna (water flea)
EC0: < 100.00 mg/l/ 48 h

Toxicity to algae

- Oxybis(methyl-2,1-ethanediyl) diacrylate : Species: Algae
EC50: < 6.7 mg/l/ 72 h

Toxicity to bacteria

- Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- : Species: Bacteria
EC50: > 500.00 mg/l/ 17 h

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Waste disposal should be in accordance with existing federal, state and local environmental control laws. Discharge to sewer may require approval of permitting authority and may require pretreatment.

Empty containers.

Recondition or dispose of empty container in accordance with governmental regulations.

US. RCRA Hazardous Waste Classification (40 CFR 261)

If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

US. Toxic Substances Control Act (TSCA)

All of the components of this product are listed on the TSCA Inventory.

US. OSHA Classification

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

US. SARA 311/312 Hazard Categories

Acute Health Hazard. Delayed Health Hazard.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

US. California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

State Right-to-Know Information

The following chemicals are specifically listed by individual states. Other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

| | <u>CAS-No.</u> | <u>Concentration [%]</u> | | |
|------------------------|----------------|--------------------------|---|--------|
| • blue organic pigment | 147-14-8 | >= 1.0 | - | <= 5.0 |

US. Massachusetts, New Jersey, Pennsylvania or Rhode Island Right to Know Substance Lists : See Section 2.

Canadian WHMIS Classification

D2B : Toxic Material Causing Other Toxic Effects

Canadian Environmental Protection Act (CEPA)

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

- Genocure PBZ

SECTION 16. OTHER INFORMATION

US. HMIS Rating

| | | |
|--------------|---|---|
| Health | : | 2 |
| Flammability | : | 1 |
| Reactivity | : | 0 |

(0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe)

US. NFPA 704M Rating

| | | |
|--------------|---|---|
| Health | : | 2 |
| Flammability | : | 1 |
| Reactivity | : | 0 |

(0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme)

Agfa Corporation's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Agfa Corporation as a customer service.

This MSDS is replacing Agfa MSDS number 1040G.000

Section(s) changed compared to the previous issue: 1

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