



## Safety data sheet

### 1. Identification of the substance/preparation and of the company/undertaking

#### 1.1 Product identifier

Trade name: Xante Direct To Film (DTF) Ink

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

Material of Use: Industrial applications: Ink Jet Ink for drop-on-demand digital printing process.

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

Manufacture/Supplier: Xante Corporation

Address: 2704 Dauphin St. Mobile, AL 36606

Phone: 521-473-6502

Emergency: Chem-Tel, Inc. 800-255-3924 (24 Hours)

### 2. Hazards identification

#### 2.1 Classification of substance or mixture

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

The substance is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.

#### 2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 Void

Hazard pictograms Void

Signal word Void

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

### 3. Composition/information on ingredients

Chemical characterization: Mixture, Ink Jet printer ink in water based.

Cyan color ink is additional information as follows:

Ingredients	CAS-NO.	Percent%
C.I. Pigment Blue	147-14-8	10%
Glycerol	56-81-5	15%
Water	7732-18-5	75%

Magenta color ink color ink color ink is additional information as follows:

Ingredients	CAS-NO.	Percent%
Quinacridone Pigment	1047-16-1	10%
Glycerol	56-81-5	15%
Water	7732-18-5	75%

Yellow color ink is additional information as follows:

Ingredients	CAS-NO.	Percent%
Yellow	68516-73-4	10%
Glycerol	56-81-5	15%
Water	7732-18-5	75%

Black color ink is additional information as follows:

Ingredients	CAS-NO.	Percent%
C.I. Pigment Black 7	1333-86-4	10%
Glycerol	56-81-5	15%
Water	7732-18-5	75%

White color ink is additional information as follows:

Ingredients	CAS-NO.	Percent%
Glycerol	56-81-5	15%
Titanium oxide	13464-67-7	5%
Water	7732-18-5	80%

#### 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.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact: Wash off with soap and plenty of water. Consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards. Inhalation :

No known significant effects or critical hazards

. Skin contact :No known significant effects or critical hazards.

Ingestion :No known significant effects or critical hazards. Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation :No specific data.

Skin contact :No specific data.

Ingestion : No specific data.

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

Treat symptomatically.

#### 5. Fire-fighting measures

##### 5.1 Extinguishing media Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### 5.2 Special hazards arising from the substance or mixture Carbon oxides

##### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

##### 5.4 Further information

Use water spray to cool unopened containers

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### 6.2 Environmental precautions Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed

### 6.4 Reference to other sections

For disposal see section

## 13. 7. Handling and storage

### 7.1 Handling Avoid contact with skin and eyes.

Avoid inhalation of vapor or mist.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### 7.3 Specific end uses

no data available

## 8. Exposure controls/personal protection

### 8.1 Control parameters Components with workplace control parameters

### 8.2 Exposure controls Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Personal protective equipment Eye/face protection Face shield and safety glasses

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves.

Gloves must be inspected prior to use.

Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. Physical and chemical properties

1	Color	Cyan
2	Odor	Slight odor
3	Boiling point/boiling range of ink	No data available
4	Melting Point/Melting Range	No data available
5	Flash point of ink	More than. 100 °C
6	Auto-Ignition Temperature	More than. 200 °C
7	Flammability(solid, gas)	Does not ignite
8	Explosive Properties	Lower limits: 2.0 vol% Upper limits: 12.3 vol% (Diethylene Glycol)
9	Vapour Pressure	No data available
10	Specific Gravity	1.06 ± 0.01(25°C)
11	Solubility	No data available
12	Water solubility	Easily soluble
13	Viscosity	4~5 cps
14	pH	7~9
15	Oxidizing properties	No data available
16	Vapor Density	Not Applicable

The Physical and chemical data given in Section 9 are typical values for this product and are not intended to be product specifications.

## 10. Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Strong oxidizing agents, Strong bases

### 10.6 Hazardous decomposition products

Other decomposition products - no data available

## 11. Toxicological information

### 11.1 Information on toxicological effects

Routes of Overexposure: Eye, skin, inhalation, and oral ingestion

**Acute Health Hazards:** Overexposure of the eye surface to ink may be mildly irritating. Overexposure of ink contact with

the skin may cause irritation and in some people, swelling and redness. Intentional inhalation to ink vapors may result in

respiratory tract irritation. Intentional or accidental oral ingestion may cause an upset stomach.

**Chronic Health Hazards:** No information available

**Mutagenicity:** No information available

**Carcinogenicity:** No information available

**Acute Toxicity Data:**

Diethylene Glycol:

LD50 Oral - rat - 12.565 mg/kg

LD50 Dermal - rabbit - 11.890 mg/kg

2-Pyrrolidone:

LD50 Oral - rat - > 5.000 mg/kg

**Inhalation:**

Not available

Diethylene Glycol:

**Irritating:**

Skin - rabbit - Mild skin irritation

Eyes - rabbit - Mild eye irritation

**Sensitization:**

Not available

**Mutagenicity:**

Not available

The information shown in SECTION 3, Hazards identification, is based on toxicity profiles of similar materials or on the components present in this material.

## **12. Ecological information**

### **12.1 Toxicity**

Aquatic toxicity:

Diethylene Glycol:

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 75.200 mg/l - 96 h

LC50 - Carassius auratus (goldfish) - 5.000 mg/l - 24 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - > 10.000 mg/l - 24 h

2-Pyrrolidone:

Toxicity to fish LC50 - Danio rerio (zebra fish) - 4.600 - 10.000 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia magna (Water flea) - > 500 mg/l - 48 h

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

### **13. Disposal considerations**

#### 13.1 Waste treatment methods

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

### **14. Transport information**

#### 14.1 UN number

ADR/RID: — IMDG: — IATA: —

#### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

#### 14.3 Transport hazard class(es)

ADR/RID: — IMDG: — IATA: —

#### 14.4 Packaging group

ADR/RID: — IMDG: — IATA: —

#### 14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

#### 14.6 Special precautions for user

no data available

### **15. Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH)

REACH Status: In compliance.

Pre-registration status: All components are listed or exempted.

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

#### 15.2 Chemical Safety Assessment

No data available

#### 15.3 Other information

##### **US Regulation:**

TSCA Section 4(a) Final Test Rules Regulated: Not regulated.

TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR): Not regulated.

TSCA Section 8(a) Inventory Update Rule: All components on TSCA INVENTORY

TSCA Section 8(d) Health and Safety Study Reporting: Not regulated.

TSCA Section 12(b) One-Time Export Notification Regulated: Not regulated.

California Proposition 65: Not regulated.

#### **16. Other information**

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in

combination with any other material or in any process.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.