

Material Safety Data Sheet

in accordance with EC Directive
 91/155/EEC



XEIKON FA-Toner

1. Identification of the Substance and of the Company

1.1 Identification of the Substance or Preparation

Xeikon FA-toner Red	Product Code : 63726
Xeikon FA-toner Blue	Product Code : 63727
Xeikon FA-toner Green	Product Code : 63728
Xeikon FA-toner Orange	Product Code : 63735
Xeikon FA-toner Clear	Product Code : 63734
Xeikon FA-toner White	Product Code : 63733
Xeikon FA-toner Extra Magenta	Product Code: 63748

Use of the Substance/Preparation :

Marking material for XEIKON high speed digital colour Printer

Manufacturer / Supplier Identification

PUNCHGRAPHIX INTERNATIONAL NV
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 B-2500 Lier - Belgium
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 Itasca, IL 60143
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For Information call :
 Phone No. : (+32)-3-443.13.11
 Emergency Phone No. : (+32)-3-443.13.11

2.Composition / Information on Ingredients

Substance or Preparation : Preparation

Ingredients Common Name CAS number	Content (%)	EINECS/ ELINCS	Symbol	R-Phrase
toner formulations Red-green-blue-orange-white				
Polyester Resin 41259-36-3	15-60	Not applicable	Not applicable	Not applicable
Polyester Resin 142843-99-0	15-60	Not applicable	Not applicable	Not applicable
Organic Salt 42405-40-3	<1	- 403-360-0	F, Xn, N	R11, R22, R50/53 (1)
toner formulations Clear				
Polyester Resin 41259-36-3	<15	Not applicable	Not applicable	Not applicable
Polyester Resin 142843-99-0	>60	Not applicable	Not applicable	Not applicable
Organic Salt 42405-40-3	<1	- 403-360-0	F, Xn, N	R11, R22, R50/53
Organic whitener 007128-64-5	1-4	230-426-4		R53
Colour Specific				
Organic Pigment 1 blue 68083-42-1	2-7	268-391-2	N,Xi	R41,R50/53

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Organic Pigment 2 Blue 147-14-8	1-7		Not applicable	Not applicable
Organic Pigment Red 6041-94-7	3-8		Not applicable	Not applicable
Organic Pigment Green 1328-53-6	5-10		Not applicable	Not applicable
Organic Pigment orange 15-793-73-4	3-8		Not applicable	Not applicable
Inorganic white pigment 1317-80-2	30-60		Not applicable	Not applicable
Organic pigment magenta 980-26-7	4-8		Not applicable	Not applicable

The full text of each relevant R phrase are listed at heading 16.

(1): The toner contains less than 0.1% free zinc.

3.Hazards Identification

This preparation is not classified as dangerous according to Directive 1999/45/EC.

This preparation is not classified as dangerous according to Directive 76/769/EEC.

Environmental Effects :

Not applicable in normal use.

Physical and Chemical Hazards :

Not applicable in normal use.

4.First Aid Measures

Immediate medical attention is not required.

Inhalation

Gargle with water, move to place in fresh air. If unsuccessful, get medical attention.

Skin Contact

Wash thoroughly with soap and water.

Eve Contact

Immediately wash eyes with plenty of water. If unsuccessful, get medical attention.

Ingestion

Dilute stomach contents with several glasses of water. If unsuccessful, get medical attention.

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**5. Fire Fighting Measures****Extinguishing Media**CO₂, dry chemicals, foam or water.**Specific Method**

Generally by sprinkling or extinguisher.

Special Protective Equipment for Fire-Fighters

Wear full bunker gear in case of burning in large quantities.

Sensitivity to static discharge

Avoid dusting: like most organic material in powder form, this material is capable of creating a dust explosion.

6. Accidental Release Measures**Personal Precautions**

Avoid prolonged or repeated contact with skin. Minimize inhalation of dust.

Environment Precautions

Keep product out of sewers and watercourses.

Methods for Cleaning Up

If spilled, sweep up or pick up by vacuum cleaner (rated for toner extraction). Remove residue with soap and water.

7. Handling and Storage**7.1 Handling (technical measures, precautions, safe handling material)**

Minimize skin contact.

Flying powder may enter eyes.

Minimize breathing dust.

Supply good ventilation.

7.2 Storage (technical measures, storage conditions, packaging material)

Avoid direct sunlight.

Do not keep this over 35 degrees centigrade.

Do not put on the ship's deck.

Keep out of reach of children.

7.3 Specific Use(s)

Only for Xeikon high speed digital Colour Printers

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**8. Exposure Controls / Personal Protection****8.1 Exposure Limit Values :**

No special technical measures. No personal protective equipment needed. Threshold Limit Value for nuisance dust: 3.5mg/m³

8.2 Exposure Control :**8.2.1 Occupational Exposure Control****8.2.1.1 Respiratory Protection :**

None required under normal conditions of use. The mean particle size (Dv50) of these toners is 8 micron

8.2.1.2 Hand Protection :

Wear gloves.

8.2.1.3 Eye Protection :

None required under normal conditions of use.

8.2.1.4 Skin and Body Protection

To prevent any contact, wear impervious clothing such as gloves, apron, boots, or whole body suits.

8.2.2 Environmental Exposure Control :

No precautions should be needed under normal use.

9. Physical and Chemical Properties**9.1 General Information**

Form : Powder

Colour : Red, green, blue, orange, white and clear (depending upon the toner formulation)

Odour : Slightly plastic odour

9.2 Important Health, Safety and Environmental Information

pH : not applicable Measuring Concentration(%) : -

Boiling Point(°C) : not applicable

Flash Point(C): not applicable

Flammability : Not flammable

Explosion Properties : This product is considered a non explosive material under normal use condition.

Oxidising Properties : This product is considered a non oxidizing material under normal use condition.

Evaporation Rate(Butyl acetate=1): not applicable

Vapour Pressure(Pa) : not applicable Measuring Temp.(°C)

Vapour Density(AIR=1) : not applicable

Density (g/cm³) : approx.1,2 Measuring Temp.(°C) :25

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Viscosity : not applicable Measuring Temp.(°C) : -

Solubility

Water Solubility (g/L) : Insoluble Measuring Temp.(°C) : -

Other Solvent name : not available

Other Solvent Solubility(g/L) : - Measuring Temp.(°C) : -

Octanol/Water Partition Coefficient: not available

9.3 Other Information

Melting point (°C) : approx. 110°C

10. Stability and Reactivity**10.1 Conditions to Avoid :**

Not applicable in normal use.

10.2 Materials to Avoid :

Not applicable in normal use.

10.3 Hazardous Decomposition Products :

not applicable

11.Toxicological Information**Acute Toxicity**

Acute Oral Toxicity (LD50) Rat : 5000 mg/kg or over

Acute Dermal Toxicity : not available

Acute Inhalation Toxicity : not available

Sensitization

Acute Skin Irritation (PII) : non-irritant

Acute Eye Irritation : not available

Acute Allergenic Effects : non-skin sensitive

Specific Effects**Carcinogenicity :**

No data is available

Mutagenicity :

No data is available

Effects on The Reproductive System :

No data is available on this product.

Teratogenic :

not available

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XEIKON FA-Toner**12. Ecological Information****12.1 Ecotoxicity**

Acute Toxicity for Fish (LD50) : over 500 mg/l (mg/l/96hr)

Acute Toxicity for Daphnia (EC50) : not available (mg/l/48hr)

Algae Inhibition Test (IC50) : not available (mg/l/72hr)

12.2 Mobility :

not available

12.3 Persistence / Degradability :

not available (deinkability = ability to recycle the printed paper : OK)

12.4 Bioaccumulation Potential :

not known in bioaccumulation

12.5 WGK classification

Classification according to the "Verwaltungsvorschrift wassergefahrende Stoffe"

WGK 1: low hazard to waters.

The zinc compound in this toner is embedded in a polymermatrix. Less than 0.1% zinc is not embedded.

12.6 Other Adverse Effects :

Not available

13. Disposal Consideration**Recommended Methods for Safe Environmentally Preferred Disposal:**

Used toner should be disposed of in an environmentally appropriate manner and in accordance with governmental regulations. Do not incinerate.

14. Transport Information**International Regulations**

RID/ADR : not applicable

DOT 49 CFR : not applicable

ADNR : not applicable

IMDG Code : not applicable

ICAO TI/ IATA DGR : not applicable

The UN Classification Number : not applicable

Specific Precautionary Transport Measures

Avoid direct sunlight. Do not keep this over 35 degrees centigrade. Do not put on the ship's deck.

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R

B

G

O

Em

W

C

Specific Materials to Avoid :

None in normal use.

15. Regulatory Information**Regulations**

This preparation is not classified as dangerous according to Directive 1999/45/EC.

This preparation is not classified as dangerous according to Directive 76/769/EEC.

16. Other Information**The full Text of R-Phrases Referred to under Heading 2 and 3 :**

R11:Highly flammable.

R22:Harmful if swallowed.

R50/53:Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R53: may cause long-term adverse effects in the aquatic environment.

R41:can cause eye injury

FDA Status of FA Toner Formulation:(for more detailed information : info@punchgraphix.com)

The study was done and the opinion was formulated by the company Keller and Heckman LLP (Washington), based on the detailed compositions of the tonerformulations. These opinions were formulated on September 6th 1999, December 9th 2004, August 12th 2005, March 16th 2006 and Septemeber 7th 2006.

The FA toners (clear, Extra magenta, red, blue, green , orange and white) may be used on the non-food contact side of food packaging materials that act as functional barriers when they are intended to contact food under room temperature and less severe conditions, and such use may properly be said to comply fully with the Act and all applicable food additive regulations.

Note :

The data given is based on the current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product properties.