

Page: 1/10

Date: 01/03/2006

## 1- PRODUCT AND COMPANY IDENTIFICATION

Product Supplier Reference: 252445514/252690838

Consumable Name: All In One Cartridge CTR360/ CTR365

Supplier identification:

SAGEM COMMUNICATION

27 rue Leblanc 75512

PARIS CEDEX 15 FRANCE

Phone:+33(0)140706363

Fax: +33(0)140706640

# **DRUM COMPONENT**

## Composition/Information on Ingredients

Substance or Preparation Preparation

Chemical Nature

Ingredients		Contents(%)
Aluminium	Confidential	98.9
Binder Resin	Confidential	0.5
Charge Carrier Transport Material	Confidential	0.4
Pigment	Confidential	0.1
Under Coat Material	Confidential	0.1

## 3. Hazards Identification (Most Important Hazard)

Adverse Human Health Effects

Not applicable in normal use.

Carcinogenicity

This product does not contain the carcinogenic substances which are listed in NTP, IARC and are regulated by OSHA.

Environmental Effects

Not applicable in normal use. Physical and Chemical Hazards

Not applicable in normal use.

The Classification of The Chemical Product

Not applicable



Date: 01/03/2006

Page: 2/10

## 4.First-Aid Measures

Inhalation

Not applicable.

Skin Contact

Wash thoroughly with soap and water.

Eye Contact

Not applicable

Ingestion

Not applicable

# 5.Fire-Fighting Measures

Extinguishing Media

CO2, dry chemicals, foam or water.

Specific Method

Generally by sprinkling or extinguisher.

## 6.Accidental Release Measures

Personal Precautions

Not applicable

Environment Precautions

Not applicable

Methods for Cleaning Up

Not applicable

# 7.Handling and Storage

Handling(technical measures, precautions, safe handling material)

Do not touch coated area of drum (for quality).

Storage(technical measures, storage conditions, packaging material)

Store in cool and dry place (for quality).

Do not expose to direct sunlight (for quality).



Date: 01/03/2006

Page: 3/10

```
8. Exposure Controls/Personal Protection
```

Respiratory Protections None needed.

Hand Protection None needed.

Eye Protection None needed.

Skin and Body Protection None needed.

## 9.Physical and Chemical Properties

Physical State Form Drum Color Greenish-blue Odour no odour

Information pH Boiling Point(-C) Flash Point(-C) Measuring Temp.(¬C) not applicable not applicable

not applicable Explosion Properties(-C) This product is considered a nonexplosive material under normal use condition. Measuring Temp.(-C)

:-

Vapor Pressure(Pa) not applicable Vapor Density(AIR=1) not applicable

Density (g/cm3) 1.2 Measuring Temp.(~C)

Solubility Water Solubility(g/L) Water Solubility Measuring Temp.(~C) 1nsoluble Other Solvent name
Other Solvent Solubility (g/L)
Other Solvent Solubility Measuring Temp.(-C):-

Octanol/Water Partition Coefficient not known

# 10.Stability and Reactivity

Conditions to Avoid

None under normal use condition.

Materials to Avoid

None under normal use condition.

Hazardous Decomposition Products

Decomposition product will not occur



Date: 01/03/2006

Page: 4/10

## 11.Toxicological Information

```
Acute Toxicity
Acute Oral Toxicity (LD50)
Mouse: 2000mg/kg or over
    Acute Dermal Toxicity
   : not applicable
Acute Inhalation Toxicity
            : not applicable
Sensitization
     Acute Skin Irritation(PII) :non-irritant
     Acute Eye Irritation
                                  not applied
    Acute Allergenic Effects Inon-skinsensitive
```

Specific Effects Carcinogenicity: No data is available on this product.

 $\begin{array}{l} {\rm Mutagenicity\ negative}(Main\ ingredients)\\ {\rm Effects\ on\ The\ Reproductive\ System\ No\ data\ is\ available\ on\ this\ product.}\\ {\rm Teratogenic\ not\ applicable} \end{array}$ 

## 12.Ecological Information

Persistence/Degradability not known

Bioaccumulation not available

Ecotoxicity

Acute Toxicity for Fish (LC50) not available (mg/kg/96hr) Acute Toxicity for Daphnia (EC50) not available (mg/kg/48hr) not available (mg/kg/72hr) Algae Inhibition Test (IC50)

## 13.Disposal Consideration

Recommended Methods for Safe Environmentally Preferred Disposal Used drum should be disposed of in an environmentally safe manner and in accordance with governmental regulations.



Date: 01/03/2006

Page: 5/10

## 14.Transport Information

International Regulations RID/ADR not applicable

DOT 49 CFR not applicable

not applicable IMDG Code ICAO-TI/IATA-DGR not applicable not applicable The UN Classification Number not applicable

Specific Precautionary Transport Measures
Temparature -20~+50 degrees centigrade Less than 30 days)
Humidty below 80%RH (No dewfall) (for quality).

Specific Materials to Avoid None in normal use.

# 15.Regulation Information

Regulations Not known

## 16.Other Information

not known



Page: 6/10
Date: 01/03/2006

# **TONER COMPONENT:**

2. Composition / Information on Ingredients

Substance or Preparation: Preparation

Ingredients Common Name / CAS No.	Contents (%)	EINECS / ELINCS	SYMBOL	R-PHRASE
Polyester Resin Confidential	30-70	not applicable -	not applicable	not applicable
Magnetite 1309-38-2	10-20	215-169-8	not applicable	not applicable
Styrene-acrylic Resin Confidential	<20	not applicable -	not applicable	not applicable
Carbon Black 1333-86-4	<5	confidential -	not applicable	not applicable
Wax 8015-86-9	<5	232-339-4	not applicable	not applicable
Silica 7631-86-9	<5	231-545-4	not applicable	not applicable
	1 1			

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

## 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.

Adverse Human Health Effects: Not applicable in normal use.

Carcinogenicity: Carbon Black was reclassified as a Group 2B by IARC in 1996 based on the result of only the inhalation study in rats. However there was not observed the incidence of tumors on the test results on dermal or oral studies. Also 2-years inhalation study using a typical toner containing carbon black showed no association between toner exposure and animal tumors.

Environmental Effects: Not applicable in normal use.

Physical and Chemical Hazards: Not applicable in normal use.



Date: 01/03/2006

Page: 7/10

## 4. First Aid Measures

Immediate medical attention is not required.

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

### Skin Contact

Wash thoroughly with soap and water.

### Eye Contact

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

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

## 5. Fire Fighting Measures

## Extinguishing Media

CO2,dry chemicals,foam or water.

### Specific Method

No special fire protecting method is required.

## Special Protective Equipment for Fire-Fighters

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

## Accidental Release Measures

## Personal Precautions

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)

Do not handle in areas where wind blows.

Flying powder may enter eyes.

Minimize breathing dust.

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

Avoid direct sunlight.

Do not keep this over 35 degrees centigrade. Keep out of reach of children.

# 7.3 Specific Use(s)

The image formation of printing machine or copier.



Date: 01/03/2006

Page: 8/10

```
8. Exposure Controls / Personal Protection
8.1 Exposure Limit Values
                                  : not applicable
8.2 Exposure Control
8.2.1 Occupational Exposure Control
                                   None required under normal conditions of use.
8.2.1.1 Respiratory Protection
8.2.1.2 Hand Protection
                                  : None required under normal conditions of use.
8.2.1.3 Eye Protection
                                    None required under normal conditions of use.
8.2.1.4 Skin and Body Protection: None required under normal conditions of use.
8.2.2 Environmental Exposure Control: No precautions should be needed under normal use.
Physical and Chemical Properties
9.1 General Information
              : Black Powder
    Form
    Color
               : black
    Odour
               : slightly sour smell
9.2 Important Health, Safety and Environmental Information
    pH
Boiling Point(°C)
                                       : not applicable
                                                            Measuring Concentration(%): -
                                       : not applicable
    Flash Point(°C)
                                      : not applicable
: Not flammable
    Flammability
    Explosion Properties
                                       : This product is considered a nonexplosive material under normal use
                                       condition.
   Oxidising Properties
                                       : This product is considered a nonoxiding material under normal use
   condition.
    Evaporation Rate(Butyl acetate=1): not applicable
    Vapor Pressure(Pa)
                                       : not applicable
                                                            Measuring Temp.(℃) :=
    Vapor Density(AIR=1)
                                       : not applicable
                                                  Measuring Temp. (℃) 25
    Density (g/cm3)
                                       : 1.45
                                                            Measuring Temp.(°C) =
    Viscosity
                                       : not applicable
   Sol ubility
    Water Solubility(g/L)
                                      : Insoluble
                                                      Measuring Temp.(°C) :-
    Other Solvent name
                                               Measuring Temp.(°C) ≒
    Other Solvent Solubility(g/L)
   Octanol/Water Partition Coefficient: not available
9.3 Other Information
    Melting point (^{\circ}C): not applicable
10.Stability and Reactivity
10.1 Conditions to Avoid
                                  : Not applicable in normal use.
10.2 Materials to Avoid
                                  : None under normal use condition.
```

10.3 Hazardous Decomposition Products : No data are available on the adverse effect on the environment.



Date: 01/03/2006

Page: 9/10

## 11. Toxicological Information

Acute Toxicity

Acute Oral Toxicity (LD50)

: 5000mg/kg or over (Rat) (The acute lethal oral dose to rats of JX Toner was

demonstrated to be greater than 5000 mg/kg bodyweight.)

Acute Dermal Toxicity

: not available

Acute Inhalation Toxicity

: not available

Sensitization

Acute Skin Irritation (PII) : non-irritant (PII=0.0)

Acute Eye Irritation : not available

Acute Allergenic Effects : non-skinsensitive (Did not produce evidence of skin sensitisation.)

Specific Effects

Carcinogenicity: In 1996 IARC reevaluated Carbon Black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, 2-years cancer bloassay using a typical toner preparation containing carbon black did not demonstrate an association between toner exposure and tumor development in rats.

Mutagenicity : negative (Ames test)
Effects on The Reproductive System : not available

Teratogenic : not available

## 12. Ecological Information

12.1 Ecotoxicity

Acute Toxicity for Fish (LC50) Not classified as toxic (EU Directive 1999/45/EC) (mg/l/96hr) Not classified as toxic (EU Directive 1999/45/EC) (mg/l/48hr) Not classified as toxic (EU Directive 1999/45/EC) (mg/l/48hr) Not classified as toxic (EU Directive 1999/45/EC) (mg/l/72hr)

12.2 Mobility : No data are available on the adverse effect on the environment.

12.3 Persistence / Degradability 12.4 Bioaccumulation Potential 12.5 Other Adverse Effects : not available : 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.



Date: 01/03/2006

Page: 10/10

## 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.

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.
Other ragulation

Not known

## 16.Other Information

## References:

 IARC (1996) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds", Lyon, pp149-261

2)H. Muhle, B.Bellman, O. Creutzenberg, C. Dasenbrock, H. Emst, R. Kilpper, J. C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka and R. Mermelstein (1991) "Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats" Fundamental and Applied Toxicology 17, pp280-299