

MATERIAL SAFETY DATA SHEET

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Date: 06/04/2010

1- IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY

Product Supplier Reference: 252445514 / 252690838

Product Manufacturer Reference: Toner In LONGFA-P2 AIO 4K (G282-23 P/N)
Toner In LONGFA-P2 AIO 2,2K (G282-24 P/N)

Consumable Name: All In One Toner Cartridge CTR360 (2,2K) / CTR365 (4K)

Supplier Identification:
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2- HAZARDS IDENTIFICATION (MOST IMPORTANT HAZARD)

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.

The Classification of The Chemical Product
Not applicable

3- COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Preparation
Preparation

Chemical Nature

Ingredients	CAS.No.	Contents(%)
Polyester Resin	117581-13-2	30-70
Magnetite	1309-38-2	<30
Styrene-acrylic Resin	25036-19-5	<20
Carbon Black	1333-86-4	<5
Wax	8015-86-9	<5
Silica	7631-86-9	<5
Chromium III compounds	31714-55-3	<1

4.First-Aid Measures

Inhalation

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.

Ingestion

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.

6.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

Handling(technical measures,precautions,safe handling material)

Do not handle in areas where wind blows.

Flying powder may enter eyes.

Minimize breathing dust.

Storage(technical measures,storage conditions,packaging material)

Avoid direct sunlight.

Do not keep this over 35 degrees centigrade.

Keep out of reach of children.

8.Exposure Controls/Personal Protection

Respiratory Protections

None required under normal conditions of use.

Hand Protection

None required under normal conditions of use.

Eye Protection

None required under normal conditions of use.

Skin and Body Protection

None required under normal conditions of use.

9.Physical and Chemical Properties

Appearance

Form : Black Powder

Color : Black

Odour : slightly sour smell

Information

pH : not applicable Measuring Temp.(degrees centigrade) : -

Boiling Point(degrees centigrade) : not applicable

Flash Point(degrees centigrade) : not applicable

Explosion Properties(degrees centigrade) : This product is considered a nonexplosive material under normal use condition.

Vapor Pressure(Pa) : not applicable Measuring Temp.(degrees centigrade): -

Vapor Density(AIR=1) : not applicable

Density (g/cm3) : 1.45 Measuring Temp.(degrees centigrade): 25

Solubility

Water Solubility(g/L) : Insoluble

Water Solubility Measuring Temp.(degrees centigrade) : -

Other Solvent name : -

Other Solvent Solubility(g/L) : -

Other Solvent Solubility Measuring Temp.(degrees centigrade) : -

Octanol/Water Partition Coefficient

not known

10.Stability and Reactivity

Conditions to Avoid

Not applicable in normal use.

Materials to Avoid

None under normal use condition.

Hazardous Decomposition Products

Decomposition product will not occur

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 applicable

Acute Inhalation Toxicity

: not applicable

Sensitization

Local effects

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

Acute Eye Irritation : not available

Sensitization

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 bioassay 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

Persistence/Degradability : not known

Bioaccumulation

not available

Ecotoxicity

Acute Toxicity for Fish (LD50) : Not classified as toxic (EU Directive 1999/45/EC)
(mg/kg/96hr)

Acute Toxicity for Daphnia (EC50) : Not classified as toxic (EU Directive 1999/45/EC)
(mg/kg/48hr)

Algae Inhibition Test (IC50) : Not classified as toxic (EU Directive 1999/45/EC)
(mg/kg/72hr)

13.Disposal Consideration

Recommended Methods for Safe Environmentally Preferred Disposal (waste from residues/contaminated packaging)

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

Land Transport

RID/ADR : not applicable

DOT 49 CFR : not applicable

ADNR : not applicable

Sea Transport

IMDG Code : not applicable

Air Transport

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. Regulation Information

Regulations

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

H.Muhle, B.Belman, O.Creutzenberg, G.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