



| SDS | 369, REV B | Effective Date: | December 23, 2014 |
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name: Pitney Bowes Toner Cartridge

Reorder Number: PB 301B, PB 860B

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Copier Toner Cartridge

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer: UK Facility:

Building 5 Trident Place Hatfield Business Park

Mosquito Way Hatfield

Hertfordshire, AL10 9UJ

Information Phone United Kingdom Number: +44(0) 8705 252 525

1.4 Emergency Telephone Number

Emergency Spill International 00-1-203-922 5340

Information

SDS Date of Preparation: February 22, 2016

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008):

| Physical: | Health: | Environmental |
|---------------|---------------|--------------------------|
| Non-Hazardous | Non-Hazardous | Chronic Aquatic Toxicity |
| | | Category 3 |

2.2 Label Elements:

Hazard Phrases:

| H412 Harmful to aquatic life with long lasting effects. |
|---|
|---|

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| P273 | Avoid release to the environment. |
|------|--|
| P501 | Dispose of container and contents to approved disposal site in accordance with |
| | all local and national regulations. |

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

| Chemical | CAS# | EINECS# | GHS Classification | % |
|----------------------------------|-------------|-----------|--|-----------|
| Name | | | Regulation (EC) No 1272/2008 | |
| Toner Powder | Mixture | Mixture | Not Applicable | >87 - |
| | | | | <99 |
| Carbon Black | 1333-86-4 | 215-609-9 | Not Applicable | 1 - 10 |
| Zirconium reaction product | 226996-19-6 | 430-610-6 | Acute Aquatic Toxicity Category 1 (H400) | 0.5 - 2.4 |

See Section 16 for further information on GHS Classification.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eyes: Do not rub eyes. Immediately flush with plenty of running cool to lukewarm water, holding eye lids open to assure thorough rinsing. Get medical attention if irritation persists or for foreign body in the eyes.

Skin: Wash with soap and water.

Inhalation: Remove to fresh air. Wash nostrils, rinse mouth. If irritation or pulmonary symptoms develop, consult a physician.

Ingestion: If swallowed, dilute with water. Do not induce vomiting unless directed to do so by a doctor or physician. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get medical attention if symptoms occur.

Notes to Physicians: Treat symptomatically.

- **4.2 Most Important symptoms and effects, both acute and delayed:** Inhalation of dust may cause minor respiratory irritation. Prolonged inhalation overexposure may result in lung damage.
- **4.3** Indication of any immediate medical attention and special treatment needed: Immediate medical treatment should not be required.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use water spray, dry chemical or foam to extinguish fire.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: Toner powder can form explosive mixtures with

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air at high concentrations.

Hazardous Decomposition Products: May produce carbon, nitrogen and zirconium oxides under fire conditions.

5.3 Advice for Fire-Fighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Do not use methods that may create a dust cloud, such as high pressure water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid inhalation of dust. Carefully sweep up material, or vacuum taking care not to generate airborne dust. Do not use vacuum if large amounts are released due to risk of dust explosion. Wipe up residual with a damp cloth.

6.2 Environmental Precautions:

It is recommended to keep away from drains, surface and ground water.

6.3 Methods and Material for Containment and Cleaning Up:

Large Spill: Not sold in large quantities.

Small Spill: Sweep up, or vacuum small amounts of material.

6.4 Reference to Other Sections:

Refer to Section 8 for protective equipment and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid inhalation of toner dust. Avoid direct contact with toner. Follow product label instructions.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Store in a cool, dry place. Keep out of the reach of children.

7.3 Specific end use(s):

Copier Toner Cartridge

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

| Chemical Name | Exposure Limits |
|---------------------------------------|---|
| Toner powder (Regulated as respirable | 5 mg/m3 (respirable fraction) TWA – France OEL |
| dust) | 1.5 mg/m3 (respirable fraction) TWA – Germany MAK |
| | 3 mg/m3 (respirable fraction) TWA – Spain OEL |
| | 4 mg/m3 (respirable fraction) TWA – UK WEL |
| Carbon Black | 3.5 mg/m3 TWA, 7 mg/m3 STEL- UK WEL |

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| | 3.5 mg/m3 TWA – Spain OEL 3.0 mg/m3 TWA – Australia OEL |
|----------------------------|--|
| Zirconium reaction product | 1 mg/m3 TWA DFG MAK (inhalable aerosol) |
| (As Zirconium) | 5 mg/m3 TWA, 10 mg/m3 STEL – Spain OEL |
| | 5 mg/m3 TWA, 10 mg/m3 STEL - UK WEL |

8.2 Exposure Controls:

Engineering Controls: None required with normal use.

Respiratory Protection: Not required under normal use conditions.

Skin Protection: Not required under normal use conditions. **Eye Protection:** Not required under normal use conditions.

Other: Not required for normal use conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

| Appearance: Black or colored powder | Vapor Density: Not applicable |
|---|---|
| Odor: Slight or no odor. | Specific Gravity: Not determined |
| Odor Threshold: Not determined | Water Solubility: Negligible |
| pH: Not applicable | Octanol/Water Partition Coefficient: |
| | Not available |
| Melting Point/Freezing Point: | Autoignition Temperature: |
| Not determined. | Not applicable |
| Boiling Point and Range: Not applicable | Decomposition Temperature: |
| | Not determined |
| Flash Point: None | Viscosity: Not applicable |
| Evaporation Rate: Not applicable | Explosion Properties: Toner powder can form |
| | explosive mixtures with air at high concentrations. |
| Flammable Limits: LEL: Not determined | Flammability (Solid, Gas): Non-Flammable |
| UEL: Not determined | solid. |
| Oxidizing Properties: Not determined | Vapor Pressure: Not applicable |
| VOC: Not available | |

9.2 Other Information:

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Not reactive under normal conditions of use.

10.2 Chemical Stability:

Stable.

10.3 Possibility of Hazardous Reactions:

None known

10.4 Conditions to Avoid:

Avoid excessive heat.

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10.5 Incompatible Materials:

Avoid contact with strong oxidizing agents.

10.6 Hazardous Decomposition Products:

Thermal decomposition may produce carbon and nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Eyes: May cause minimal irritation. **Skin:** No adverse effects expected.

Ingestion: No adverse effects expected. This product is not acutely toxic by ingestion. **Inhalation:** Could be a route of exposure, but unlikely under normal use. Inhalation of toner powder may cause mucous membrane and respiratory irritation. Prolonged and repeated overexposure may cause lung damage.

Acute Toxicity Values:

Carbon Black: LD50 Oral Rat > 15,400 mg/kg

LD50 Skin Rabbit > 3,000 mg/kg

Zirconium reaction product (As Zirconium):

LD50 Oral Rat > 5,000 mg/kg

Irritation: May cause mild eye irritation.

Corrosivity: This is not a corrosive product.

Sensitization: This product is not expected to cause sensitization. None of the components are respiratory or skin sensitizers.

Specific Target Organ Toxicity:

Single Exposure: None known.

Repeat Exposure: In a study in rats of chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16 mg/m3) exposure group. A minimal to mild degree of lung fibrosis was observed in 22% of the rats in the middle (4 mg/m3) exposure group. No pulmonary change was reported in the lowest (1 mg/m3) exposure group, the most relevant level to potential human exposures.

Carcinogen Status: In 1996 IARC (International Agency for Research on Cancer) re-evaluated carbon black as a group 2B carcinogen (possible human carcinogen). None of the other components of this product at greater than 0.1% are classified as carcinogens by IARC or the EU CLP.

Germ Cell Mutagenicity: This product is not expected to be a mutagen.

Toxicity for Reproduction: This product is not a reproductive hazard.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Zirconium reaction product (As Zirconium):

LC50 Brachydanio rerio (Zebra Fish) >100 mg/L/ 96 hr.

EC50 Hyallela azteca: > 3.15 mg/ L/7 days.

12.2 Persistence and Degradability:

No data available for product.

12.3 Bioaccumulative Potential:

No data available for product.

12.4 Mobility in Soil:

No data available for product.

12.5 Results of PBT and vPvB Assessment:

Not required.

12.6 Other Adverse Effects:

None.

SECTION 13: DISPOSAL INFORMATION

13.1 Waste Treatment Methods

Dispose in accordance with local, state or provincial and federal or national regulations.

SECTION 14: TRANSPORT INFORMATION

| | 14.1 UN Number | 14.2 UN Proper Shipping Name | 14.3 Transport Hazard Class(s) | 14.4 Packing Group | 14.5 Environmental Hazards |
|------------|----------------------|------------------------------------|---|--------------------------|----------------------------------|
| EU ADR/RID | None | Not regulated for transport | None | None | No |
| IATA: | None | Not regulated for transport | None | None | No |
| IMDG | None | Not regulated for transport | None | None | No |

14.6 Special Precautions for User:

None

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable

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SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

INTERNATIONAL REGULATIONS

German WGK: Not determined.

15.2 Chemical Safety Assessment:

Not required

SECTION 16: OTHER INFORMATION

GHS Phrases for Reference (See Section 2 and 3):

H400 Very toxic to aquatic life.

SDS Prepared By: Chemical Review Board Date Revised: February 22, 2016

Revision Summary: Update and change Section 15. Remove EU Statements.

Emergency spill information number updated in November 2020

Previous Revision: December 23, 2014