Material Safety Data Sheet

SDS #: P-06

Replenisher-Black

Issuing Date: 2002-08-14
Revision Date: 2011-08-09
Version: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Replenisher for Document Centre 535, Document Centre 545, Document Centre 555, CopyCentre C35, CopyCentre C45, CopyCentre C55, CopyCentre C165, CopyCentre C175, CopyCentre 232, CopyCentre 238, CopyCentre 245, CopyCentre 255, CopyCentre 265, CopyCentre 275, WorkCentre M35, WorkCentre M45, WorkCentre M55, WorkCentre Pro 35, WorkCentre Pro 45, WorkCentre Pro 55, WorkCentre Pro 165, WorkCentre Pro 175, WorkCentre M165, WorkCentre M175, WorkCentre 232, WorkCentre 238, WorkCentre 245, WorkCentre 255, WorkCentre 265, WorkCentre 275, WorkCentre Pro 232, WorkCentre Pro 238, WorkCentre Pro 245, WorkCentre Pro 255, WorkCentre Pro 265, WorkCentre Pro 275, WorkCentre 5030, WorkCentre 5050, WorkCentre 5135, WorkCentre 5150, WorkCentre 5632, WorkCentre 5638, WorkCentre 5645, WorkCentre 5655, WorkCentre 5665, WorkCentre 5675, WorkCentre 5687, WorkCentre 5735, WorkCentre 5740, WorkCentre 5745, WorkCentre 5755, WorkCentre 5765, WorkCentre 5775, WorkCentre 5790, WorkCentre Bookmark 40, WorkCentre Bookmark 55

Part No. 006R01046, 006R01047, 006R01186, 006R01146, 006R01229, 006R01230, 093K06410, 093K04541, 093K14370, 093K14380, 504K11840

Color: black
Pure substance/preparation: Preparation

Identified uses: Xerographic printing

Manufactured by: Xerox Corporation
Rochester, NY 14644

Emergency telephone:
Safety Information (800)828-6571
Health Emergency (585)422-2177
Chemical Emergency only (ChemetREC) (800)424-9300
or (703)527-3887 (collect outside the US or Canada)

2. HAZARDS IDENTIFICATION

Emergency Overview
The product contains no substances which, in the form utilized and at their given concentrations, are considered to be hazardous to health.
4. FIRST AID MEASURES

General advice
For external use only. When symptoms persist or in all cases of doubt seek medical advice. Show this material safety data sheet to the doctor in attendance.

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes

Skin contact
Wash skin with soap and water

Inhalation
Move to fresh air

Ingestion
Rinse mouth with water and afterwards drink plenty of water or milk

Notes to physician
Treat symptomatically

Protection of first-aiders
No special protective equipment required.

5. FIRE-FIGHTING MEASURES

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Replenisher-Black

<table>
<thead>
<tr>
<th>Color</th>
<th>Appearance</th>
<th>Physical state</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>black</td>
<td>Powder</td>
<td>Solid</td>
<td>Faint</td>
</tr>
</tbody>
</table>

Potential Health Effects
Principle Routes of Exposure
Acute toxicity
Inhalation
Eyes
No known effect
Skin
No known effect
Inhalation
No known effect
Ingestion
No known effect

Chronic effects
No known effects under normal use conditions. Repeated or prolonged inhalation may cause irritation of the respiratory tract as can occur with the inhalation of any non-toxic dust. Minimum respiratory or eye irritation may occur as with exposure to large amounts of any non-toxic dust.

Main symptoms
Overexposure may cause:
- mild respiratory irritation
- similar to nuisance dust

Aggravated Medical Conditions
None under normal use conditions

Environmental hazard
See Section 12 for additional Ecological Information

Risk Phrases
None required

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester resin</td>
<td>Proprietary</td>
<td>80-90</td>
</tr>
<tr>
<td>Metal oxide</td>
<td>Proprietary</td>
<td>10-20</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>5-10</td>
</tr>
<tr>
<td>Polypropylene wax</td>
<td>9003-07-0</td>
<td>0.1-5</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>1-3</td>
</tr>
</tbody>
</table>

xerox
Flammable properties

Not flammable. Will not readily ignite.

Flash point

not applicable

Suitable extinguishing media

Use water spray or fog; do not use straight streams, Foam

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire

Hazardous combustion products

Hazardous decomposition products due to incomplete combustion, Carbon oxides, Nitrogen oxides (NOx)

Explosion Data

- Sensitivity to Mechanical Impact: Not impact sensitive
- Sensitivity to Static Discharge: Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Specific hazards arising from the chemical
Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Protective Equipment and Precautions for Firefighters
In the event of fire and/or explosion do not breathe fumes. Wear fire/flame resistant/retardant clothing. Use self-contained pressure-demand breathing apparatus if needed to prevent exposure to smoke or airborne toxins.

NFPA 704

<table>
<thead>
<tr>
<th></th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Stability</th>
<th>Special hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer use</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>Bulk Packaging</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>None</td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid breathing dust.

Environmental Precautions
Refer to protective measures listed in Sections 7 and 8.

Methods for containment
Prevent dust cloud

Methods for cleaning up
Prevent dust cloud. Sweep up or vacuum up spillage and collect in suitable container for disposal. Use non-sparking tools and equipment.

Other Information
See Section 12 for additional information

7. HANDLING AND STORAGE

Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice
Prevent dust cloud

Technical measures/Storage conditions
Keep container tightly closed in a dry and well-ventilated place
Store at room temperature

Hygiene measures
None under normal use conditions
8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Exposure guidelines

**Product information**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH TLV TWA</td>
<td>10 mg/m³ (inhalable particles)</td>
</tr>
<tr>
<td>ACGIH TLV TWA</td>
<td>3 mg/m³ (respirable particles)</td>
</tr>
<tr>
<td>OSHA PEL TWA</td>
<td>15 mg/m³ (total dust)</td>
</tr>
<tr>
<td>OSHA PEL TWA</td>
<td>5 mg/m³ (respirable dust)</td>
</tr>
<tr>
<td>Xerox Exposure Limit</td>
<td>2.5 mg/m³ (total dust)</td>
</tr>
<tr>
<td>Xerox Exposure Limit</td>
<td>0.4 mg/m³ (respirable dust)</td>
</tr>
</tbody>
</table>

**Other Information**

The results obtained from a Xerox sponsored Chronic Toner Inhalation Study demonstrated no lung changes in rats for the lowest (1 mg/m³) exposure level (the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of animals at the middle (4 mg/m³) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m³) exposure level. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special test toner to comply with an EPA testing protocol.

**Biological standards**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Occupational Exposure Controls**

**Engineering measures**

None under normal use conditions.

**Industrial use**

Avoid dust formation
Ensure all equipment is electrically grounded before beginning transfer operations
Provide appropriate exhaust ventilation at places where dust is formed

**Personal Protective Equipment**

**Consumer use**

These recommendations apply to the product as supplied

**Respiratory protection**

No special protective equipment required.

**Eye/face protection**

No special protective equipment required.

**Skin and body protection**

No special protective equipment required.

**Hand protection**

No special protective equipment required

**Industrial use**

In case of insufficient ventilation:
Wear protective eyewear (goggles)
Effective dust mask

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance: Powder
Odor threshold: not applicable
pH: not applicable
Flash point: not applicable
Softening point: 49 - 60 °C / 120 - 140 °F

Flammability Limits in Air: not applicable

Explosive properties: Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard
Vapor pressure: not applicable
Vapor density: not applicable
Water solubility: Negligible
Viscosity: not applicable
Partition coefficient: not applicable
Evaporation rate: not applicable
Melting point/range: Not determined
Freezing point: not applicable
Specific gravity: not applicable

10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use
Stability: Stable under normal conditions
Incompatible products: None
Conditions to Avoid: Prevent dust cloud. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

Hazardous Decomposition Products: None under normal use
Hazardous polymerization: Hazardous polymerization does not occur
Hazardous reactions: None under normal processing.

11. TOXICOLOGICAL INFORMATION
The toxicity data noted below is based on the test results of similar reprographic materials.

Acute toxicity

Product information

Irritation: No skin irritation No eye irritation
LD50 Oral: > 5 g/kg (rat)
LD50 Dermal: > 5 g/kg (rabbit)
LC50 Inhalation: > 5 mg/L (rat, 4 hr)

Chronic toxicity

Product information
12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated. However, this preparation is not expected to present significant adverse environmental effects.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging
Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

Note
This material is not subject to regulation as a hazardous material for shipping.
15. REGULATORY INFORMATION

International Inventories
TSCA
Complies
DSL/NDSL
Complies

U.S. Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories
- Acute Health Hazard: No
- Chronic Health Hazard: No
- Fire Hazard: No
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: No

Clean Water Act
This product is not regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product is not regulated as a hazardous air pollutant (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

TSCA
TSCA 12b does not apply to this product.

U.S. State Regulations
California Proposition 65
Carbon black is regulated under California Proposition 65 only if in the form of "airborne, unbound particles of respirable size". Toner products do not contain carbon black in the form of "airborne, unbound particles of respirable size". Therefore, the requirements of Proposition 65 do not apply to this product.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations
Although this product contains substances included in some U.S. State Right-to-Know regulations, the particles are bound in a unique matrix and, therefore, the product does not pose any specific hazard.

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class
Not subject to WHMIS classification

16. OTHER INFORMATION

Issuing Date 2002-08-14
Revision Date 2011-08-09
Revision Note Model #(s) WorkCentre Bookmark 40 and WorkCentre Bookmark 55 added
Disclaimer
The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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