1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product 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/mixture

Mixture

Recommended Use

Xerographic printing

For further information, please contact

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

Manufactured by

Xerox Corporation
Rochester, NY 14644
2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Customer use / Cartridges and sealed bottles

OSHA Hazard Classification

This product is an article which contains a mixture / preparation in powder form. Safety information is given for exposure to the article as sold and used by the customer. Intended use of the product is not expected to result in exposure to the mixture / preparation based on the packaging and method of dispensing.

While this material is not considered hazardous by the OSHA hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information for the safe handling and proper use of the product. This SDS should be retained and made available to employees and other users of this product.

Label elements

Signal Word None

Hazard Statements None required

Precautionary Statements None required

Other hazards

No hazard expected under normal conditions of use

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>Classification (Reg. 1272/2008)</th>
<th>Hazard Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester resin</td>
<td>117581-13-2</td>
<td>80-90</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Iron oxide</td>
<td>1317-61-9</td>
<td>10-20</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>5-10</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Polypropylene wax</td>
<td>9003-07-0</td>
<td>0.1-5</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>1-3</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of 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
Most important symptoms and effects, both acute and delayed

Acute toxicity

- Eyes: No known effect
- Skin: No known effect
- Inhalation: No known effect
- Ingestion: No known effect

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

Aggravated Medical Conditions: None under normal use conditions

Indication of immediate medical attention and special treatment needed

- Protection of first-aiders: No special protective equipment required
- Notes to physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media

- 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

Special hazards arising from the substance or mixture

- Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

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

Special protective actions for fire-fighters

- 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.

Other information

- Flammable properties: Not flammable. Will not readily ignite.
- Flash point: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Avoid breathing dust

Environmental precautions

- No special environmental precautions required

Methods and material for containment and cleaning up

- Methods for containment: Prevent dust cloud
- Methods for cleaning up: Use a vacuum cleaner to remove excess, then wash with COLD water. Hot water fuses the toner making it difficult to remove.

Reference to other sections

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

7. HANDLING AND STORAGE
Precautions for safe handling

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

Hygiene measures
None under normal use conditions

Conditions for safe storage, including any incompatibilities

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

Incompatible products
None

Specific end uses

Xerographic printing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

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

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td>TWA: 3 mg/m³</td>
<td>TWA: 3.5 mg/m³</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 15 mg/m³</td>
</tr>
</tbody>
</table>

Exposure controls

Engineering measures
None under normal use conditions

Individual protection measures, such as personal protective equipment (PPE)

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Softening point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odor</td>
<td>Faint</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Boiling</td>
<td>Not applicable</td>
</tr>
<tr>
<td>point/range</td>
<td>Autoignition</td>
</tr>
<tr>
<td>temperature</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
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
Decomposition temperature      Not determined
Specific gravity               ~ 1 (toner component)

Other information
Explosive properties           Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

10. STABILITY AND REACTIVITY

Reactivity
No dangerous reaction known under conditions of normal use

Chemical stability
Stable under normal conditions

Possibility of hazardous reactions
Hazardous reactions            None under normal processing
Hazardous polymerization       Hazardous polymerization does not occur

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

Incompatible materials to avoid
None

Hazardous decomposition products
None under normal use

11. TOXICOLOGICAL INFORMATION

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

Information on toxicological effects

Acute toxicity

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

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LC50 Inhalation</th>
<th>Dermal LD50</th>
<th>Oral LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron oxide</td>
<td></td>
<td></td>
<td>10000 mg/kg (Rat)</td>
</tr>
<tr>
<td>Carbon black</td>
<td></td>
<td>3 g/kg (Rabbit)</td>
<td>15400 mg/kg (Rat)</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td></td>
<td></td>
<td>10000 mg/kg (Rat)</td>
</tr>
</tbody>
</table>
Chronic toxicity

- Sensitization: No sensitization responses were observed
- Neurological Effects: No information available
- Target organ effects: None known

CMR Effects

- Mutagenic effects: Not mutagenic in AMES Test
- Reproductive toxicity: No information available
- Carcinogenicity: See "Other Information" in this section.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NTP</th>
<th>IARC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td></td>
<td>2B</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td></td>
<td>2B</td>
</tr>
</tbody>
</table>

Other information

The IARC (International Agency for Research on Cancer) has listed carbon black as "possibly carcinogenic to humans". However, Xerox has concluded that the presence of carbon black in this mixture does not present a health hazard. The IARC classification is based on studies evaluating pure, "free" carbon black. In contrast, toner is a formulation composed of specially prepared polymer and a small amount of carbon black (or other pigment). In the process of making toner, the small amount of carbon black becomes encapsulated within a matrix. Xerox has performed extensive testing of toner, including a chronic bioassay (test for potential carcinogenicity). Exposure to toner did not produce evidence of cancer in exposed animals. The results were submitted to regulatory agencies and published extensively.

The IARC (International Agency for Research on Cancer) has listed titanium dioxide as "possibly carcinogenic to humans". However, Xerox has concluded that the presence of titanium dioxide in this mixture does not present a health hazard. The IARC classification is based on studies in rats using high concentrations of pure, unbound TiO2 particles of respirable size. The Titanium Dioxide Industry REACH Consortium has concluded that these effects were species-specific, attributable to lung overload and not specific to TiO2, i.e. similar effects would also be seen for other low solubility dusts. Toxicological and epidemiological studies do not suggest a carcinogenic effects in humans. In addition, the titanium dioxide in this mixture is encapsulated in a matrix or bound to the surface of the toner.

Other toxic effects

- Aspiration Hazard: Not applicable
- Other adverse effects: None known

12. ECOLOGICAL INFORMATION

Toxicity

On available data, the mixture / preparation is not harmful to aquatic life

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to microorganisms</th>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon black</td>
<td></td>
<td></td>
<td></td>
<td>EC50 &gt; 5600 mg/L 24 h</td>
</tr>
</tbody>
</table>

Persistence and degradability

- Not readily biodegradable

Bioaccumulative potential

- Bioaccumulation is unlikely

Mobility in soil

- Insoluble in water

Other adverse effects

- Presents little or no hazard to the environment.
13. DISPOSAL CONSIDERATIONS

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
No special precautions are needed in handling this material

14. TRANSPORT INFORMATION

This material is not subject to regulation as a hazardous material for shipping

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

OSHA Regulatory Status
This product is an article which contains a mixture / preparation in powder form. Safety information is given for exposure to the article as sold and used by the customer. Intended use of the product is not expected to result in exposure to the mixture / preparation based on the packaging and method of dispensing.
While this material is not considered hazardous by the OSHA hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information for the safe handling and proper use of the product. This SDS should be retained and made available to employees and other users of this product.

Canada
This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR), and the SDS contains all the information required by the HPR.

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

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

US 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.

Titanium dioxide is regulated under California Proposition 65 only if a product results in exposure in the form of "airborne, unbound particles of respirable size". Toner products do not result in exposure to titanium dioxide 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>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</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.

**16. OTHER INFORMATION**

<table>
<thead>
<tr>
<th>Issuing Date</th>
<th>2002-08-14</th>
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</thead>
<tbody>
<tr>
<td>Revision Date</td>
<td>2018-02-01</td>
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<tr>
<td>Revision Note</td>
<td>Update to Format</td>
</tr>
</tbody>
</table>

**Disclaimer**

The information provided on this SDS 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.