1. Product and Company Identification

Trade Name: Toner for Phaser 3300 MFP, Phaser 3428, Phaser 3435, WorkCentre 3550, Phaser 3635 MFP, Phaser 3320, WorkCentre 3315, WorkCentre 3325


Color Black

Pure substance/preparation Preparation

Identified uses Xerographic printing

Manufactured by: Xerox Corporation
Webster, NY  14580

Emergency telephone
Safety Information (800)828-6571
Health Emergency (585)422-2177
Chemical Emergency only (Chemtrec) (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.

<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 Inhalation

Acute toxicity

<table>
<thead>
<tr>
<th>Eyes</th>
<th>No known effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>No known effect</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No known effect</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No known effect</td>
</tr>
</tbody>
</table>

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>&gt;80</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Additives</td>
<td>Proprietary</td>
<td>&lt;5</td>
</tr>
</tbody>
</table>

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

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

Industrial User
Do not eat, drink or smoke when using this product
Wash hands before eating, drinking, chewing gum, using tobacco, or using toilet
Wash hands before breaks and at the end of workday
Provide regular cleaning of equipment, work area and clothing.

8. Exposure Controls/Personal Protection

Exposure guidelines
Product information

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></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 dust)</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>
</tbody>
</table>
Xerox Exposure Limit 2.5 mg/m$^3$ (total dust)
Xerox Exposure Limit 0.4 mg/m$^3$ (respirable dust)

Other Information
The results obtained from a Xerox sponsored Chronic Toner Inhalation Study demonstrated no lung changes in rats for the lowest (1mg/m$^3$) 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 (4mg/m$^3$) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16mg/m$^3$) 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</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>49 - 60 °C / 120 - 140 °F</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 point/range</td>
<td>not applicable</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>not applicable</td>
</tr>
</tbody>
</table>
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

Negligible

Water solubility

not applicable

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)

Eyes

No known effect

Skin

No known effect

Inhalation

No known effect

Ingestion

No known effect

Chronic toxicity

Product information

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

Carcinogenicity
See "Other Information" in this section.

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

Other toxic effects
Produt information
- Sensitization: No sensitization responses were observed
- Mutagenic effects: Not mutagenic in AMES Test
- Target organ effects: None known.
- Other adverse effects: None known
- Aspiration Hazard: not applicable

Other information
The IARC (International Agency for Research on Cancer) has listed carbon black as “possibly carcinogenic to humans”. The 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.

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
Carbon black is regulated under California Proposition 65 only if in the form of “airborne, unbound particles of respirable size”. Therefore, the requirements of Proposition 65 do not apply to this product.

**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**

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td></td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard</td>
<td></td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td></td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td></td>
</tr>
</tbody>
</table>

**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>

**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

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### 16. Other Information

<table>
<thead>
<tr>
<th>Date</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issuing Date</td>
<td>2006-08-28</td>
</tr>
<tr>
<td>Revision Date</td>
<td>2012-01-13</td>
</tr>
<tr>
<td>Revision Note</td>
<td>Part number(s) 106R2304, 106R2305, 106R2306, 106R2307, 106R2308, 106R2309, 106R2310, 106R2311, 106R2312, 106R2313 added Model(s) Phaser 3320, WorkCentre 3315, WorkCentre 3325 added</td>
</tr>
</tbody>
</table>

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BR547

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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.

end