

Safety Data Sheet

SDS # : A-1033

Toner -Black

Issuing Date 2006-08-28

Revision Date 2012-01-13

Version 1

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

Part No. 106R01411, 106R01412, 106R01245, 106R01246, 108R00792, 108R00793, 108R00794, 108R00795, 108R00796, 106R01415, 106R01414, 106R01527, 106R01528, 106R01529, 106R01530, 106R01531, 106R02304, 106R02305, 106R02306, 106R02307, 106R02308, 106R02309, 106R02310, 106R02311, 106R02312, 106R02313

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.

| Color | Appearance | Physical state | Odor |
|-------|------------|----------------|-------|
| Black | Powder | Solid | Faint |

Potential Health Effects

Principle Routes of Exposure Inhalation

Acute toxicity

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

Chronic effects

Chronic toxicity 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

| Chemical Name | CAS-No | Weight % |
|-----------------|-------------|----------|
| Polyester resin | Proprietary | >80 |
| Carbon Black | 1333-86-4 | <10 |
| Additives | Proprietary | <5 |

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/flamm resistant/retardant clothing. Use self-contained pressure-demand breathing apparatus if needed to prevent exposure to smoke or airborne toxins.

NFPA 704

| Consumer use | Health Hazard | Flammability | Stability | Special hazard |
|---------------|---------------|--------------|-----------|----------------|
| | 0 | 1 | 0 | None |
| Bulk packages | 0 | Flammability | Stability | Special hazard |
| | | 3 | 0 | None |

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

| | |
|----------------------|--|
| ACGIH TLV TWA | 10 mg/m ^{er3} (inhalable particles) |
| ACGIH TLV TWA | 3 mg/m ^{er3} (respirable dust) |
| OSHA PEL TWA | 15 mg/m ^{er3} (total dust) |
| OSHA PEL TWA | 5 mg/m ^{er3} (respirable dust) |

Xerox Exposure Limit 2.5 mg/m^{er3} (total dust)
Xerox Exposure Limit 0.4 mg/m^{er3} (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^{er3}) 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^{er3}) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16mg/m^{er3}) 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 | Faint |
| Odor threshold | not applicable | Physical state | Solid |
| pH | not applicable | Color | Black |
| Flash point | not applicable | Boiling point/range | not applicable |
| Softening point | 49 - 60 °C / 120 - 140 °F | Autoignition temperature | not applicable |
| 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 |

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| 10. Stability and Reactivity |
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| 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. |

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| 11. Toxicological Information |
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The toxicity data noted below is based on the test results of similar reprographic materials.

Acute toxicity

Product information

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|-------------------------|--------------------------------------|
| 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 |
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| Ingestion | No known effect |

Chronic toxicity

Product information

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| 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.

| Chemical Name | IARC | NTP |
|---------------|------|-----|
| Carbon Black | 2B | |

Other toxic effects

Product 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

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.

| Chemical Name | CAS-No | California Prop. 65 |
|---------------|-----------|---------------------|
| Carbon Black | 1333-86-4 | Carcinogen |

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 2006-08-28
Revision Date 2012-01-13
Revision Note Part number(s) 106R2304, 106R2305, 106R2306, 106R2307, 106R2308, 106R2309, 106R2310, 106R2311, 106R2312, 106R2313 added
 Model(s) Phaser 3320, WorkCentre 3315, WorkCentre 3325 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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