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

Product Identifier

Product Name
Dry Ink  for  5016, 5018, 5021, 5028, 5034, 5126, 5321, 5328, 5334, 5534, 5624, 5626, 5818, 5820, 5828, 5830, Bookmark 21, Class II, XC1875, XC2675
Toner Cartridge

Part no.

Color
Black
Pure substance/mixture
Mixture

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use
Xerographic printing

Details of the supplier of the safety data sheet

Manufactured by
Xerox Corporation
Webster, NY 14580

For further information, please contact

Contact person
Manager, Environment, Health, Safety & Sustainability
E-mail address
askxerox@xerox.com
Emergency telephone
Safety Information US: (800) 275-9376
Chemical Emergency only (Chemtrec) (800) 424-9300

For the most current document
https://safetysheets.business.xerox.com

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
- Not a PBT according to REACH Annex XIII
- May form explosible dust-air mixture if dispersed

3. COMPOSITION/INFORMATION ON INGREDIENTS

<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>Steel powder</td>
<td>7439-89-6</td>
<td>20-30</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Iron oxide</td>
<td>1317-61-9</td>
<td>10-15</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>&lt;5</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Styrene/butadiene copolymer</td>
<td>9003-55-8</td>
<td>50-75</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

*"--" indicates no classification or hazard statements apply.*

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)

**Advice 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.
- Wear self-contained breathing apparatus and protective suit

**Other information**

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Not flammable. Will not readily ignite.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### 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**

<table>
<thead>
<tr>
<th>Methods for containment</th>
<th>Prevent dust cloud</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methods for cleaning up</td>
<td>Use a vacuum cleaner to remove excess, then wash with COLD water. Hot water fuses the toner making it difficult to remove</td>
</tr>
</tbody>
</table>

**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 conditions

- **Incompatible products**
  - None

**Specific end uses**

- Xerographic printing

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Limits**

- **ACGIH TLV TWA**
  - 10 mg/m³ (inhalable particles)
ACGIH TLV TWA  3 mg/m³ (respirable dust)
OSHA PEL TWA  15 mg/m³ (total dust)
OSHA PEL TWA  5 mg/m³ (respirable dust)
Xerox Exposure Limit  2.5 mg/m³ (total dust)
Xerox Exposure Limit  0.4 mg/m³ (respirable dust)

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>
</tbody>
</table>

Exposure controls

Engineering measures  None under normal use conditions

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

Eye/Face protection  No special protective equipment required
Hand protection  No special protective equipment required
Skin and body protection  No special protective equipment required.
Respiratory protection  No special protective equipment required.
Thermal hazards  None under normal processing

Environmental Exposure Controls  Keep out of drains, sewers, ditches and waterways

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>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Odor</td>
<td>Faint</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>Boiling point/range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Softening point</td>
<td>49 - 60 °C / 120 - 140 °F</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not flammable. Will not readily ignite.</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>~ 1</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Negligible</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Other information</td>
<td>None</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
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
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>Steel powder</td>
<td></td>
<td></td>
<td>30 g/kg (rat)</td>
</tr>
<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>
</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: This product does not contain any known or suspected reproductive hazards
- 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>
</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.
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>Steel powder</td>
<td>LC50= 13.6 mg/L Morone saxatilis 96 h</td>
<td></td>
<td></td>
<td></td>
</tr>
<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

Waste treatment methods
Can be landfilled or incinerated, when in compliance with local regulations. If incineration is to be carried out, care must be exercised to prevent dust clouds forming.

Contaminated packaging
No special precautions are needed in handling this material

Other information
Although toner is not an aquatic toxin, microplastics may be a physical hazard to aquatic life and should not be allowed to enter drains, sewers, or waterways.

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

<table>
<thead>
<tr>
<th>TSCA</th>
<th>Compiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL/NDSL</td>
<td>Compiles</td>
</tr>
</tbody>
</table>

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.

<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.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Issuing Date</th>
<th>1986-12-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date</td>
<td>2019-04-29</td>
</tr>
<tr>
<td>Revision Note</td>
<td>Update to Format, Part number 006R99244 added</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.

end