Safety Data Sheet

SDS # : A-0009A

Magnetic Toner/Dry Ink/Magnetic Dry Imager - Black

Issuing Date 1985-05-14
Revision Date 2015-02-16
Version 1

1. Product and Company Identification

Trade Name  Magnetic Dry Imager for 2020, 2300, 2350, 2600, 3100, 3107, 3109, 3300, 3400, 3450, 4045, XP10, XP10E
Magnetic Toner

Part no. 006R00059, 006R00130, 006R00139, 006R00408, 006R00506, 006R00525, 006R00537, 006R90124, 006R00423

Color Black
Pure substance/preparation Preparation
Identified uses Xerographic printing
Manufacturer Xerox Corporation
Rochester, NY 14644
Emergency telephone Safety Information US: (800) 275-9376
Chemical Emergency only (Chemtrec) (800) 424-9300

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>

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

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

Main symptoms  Overexposure may cause: mild respiratory irritation similar to nuisance dust.
Aggravated medical conditions  None under normal use conditions
Environmental hazard  The environmental impact of this product has not been fully investigated. However, this preparation is not expected to present significant adverse environmental effects.

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>39382-25-7</td>
<td>65-75</td>
</tr>
<tr>
<td>Magnetite</td>
<td>1317-61-9</td>
<td>20-30</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>&lt;5-10</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
Specific hazards arising from the chemical

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

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.

6. Accidental Release Measures

Personal Precautions: Avoid breathing dust

Environmental Precautions: No special environmental precautions required

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: 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

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice
- Avoid dust accumulation in enclosed space
- 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/Personal Protection

Exposure guidelines
Product information

<table>
<thead>
<tr>
<th>Standard</th>
<th>Value</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/m² (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>
<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 (4mg/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

Personal Protective Equipment
Customer use / Cartridges and sealed bottles
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

<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>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>
</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.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Negligible</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>Not determined</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>~ 1</td>
</tr>
</tbody>
</table>
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
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>2B</td>
<td></td>
</tr>
</tbody>
</table>

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.

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

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

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.

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.

TSCA
TSCA 12(b) 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

<table>
<thead>
<tr>
<th>Issuing Date</th>
<th>1985-05-14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date</td>
<td>2015-02-16</td>
</tr>
<tr>
<td>Revision Note</td>
<td>Out-of-date for Canada</td>
</tr>
<tr>
<td></td>
<td>Updated for OSHA HazCom 2012</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