Material Safety Data Sheet

Dry Imager -Black

Trade Name: Dry Imager for 2510, 2511, 2515, 2520, 2520 EO, 3001, 3030, 3040, 3050, 3050 EO, 3050 FX, 3060, 8233, 8825, 8825 I, 8825 II, 8825 DDS, 8830, 8830 DDS, 8836


Manufactured by: Xerox Corporation
Supplier Address Xerox Corporation
Webster, NY 14580
800 Phillips Road
Webster, NY, 14580
phone: 585-423-5090

Emergency telephone
Safety Information (800)828-6571
Health Emergency (585)422-2177
Transportation Emergency (Chemetec) (800)424-9300
or (703)527-3887 (collect outside the US or Canada)

2. HAZARDS IDENTIFICATION

The product contains no substances which, in the form utilized and at their given concentrations, are considered to be hazardous to health.

Potential Health Effects
Principal Routes of Exposure
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.
Main Symptoms
Overexposure may cause: mild respiratory irritation
Aggravated Medical Conditions
None under normal use conditions.
Environmental hazard
See Section 12 for additional ecological information.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene/acrylate polymer</td>
<td>25213-39-2</td>
<td>60-65</td>
</tr>
<tr>
<td>Acrylic resin</td>
<td>26299-47-8</td>
<td>20-25</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>10-15</td>
</tr>
<tr>
<td>Polyolefin</td>
<td>9003-07-0</td>
<td>1-10</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General advice  
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.

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 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.

<table>
<thead>
<tr>
<th>NFPA 704</th>
<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></td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>None</td>
</tr>
<tr>
<td>Bulk Packaging</td>
<td>Health Hazard</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>Special hazard</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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 approved industrial vacuum cleaner for removal. 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
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

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/m³ (inhalable particles)
ACGIH TLV TWA 3 mg/m³ (respirable particles)
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)
Other information
The results obtained from a Xerox sponsored Chronic Toner Inhalation Study demonstrated no lung changes in rats for the lowest (1mg/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 (16mg/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.

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>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>
<tr>
<td>Flammability Limits in Air</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>Vapor pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
SDS # : A-0042A
Dry Imager -Black

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<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>Specific Gravity</td>
<td>Not applicable</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

Acute toxicity

<table>
<thead>
<tr>
<th>Product Information</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irritation</td>
<td>No skin irritation. No eye irritation.</td>
</tr>
<tr>
<td>LD50 Oral:</td>
<td>&gt; 5 g/kg (rat)</td>
</tr>
<tr>
<td>LD50 Dermal:</td>
<td>&gt; 5 g/kg (rabbit)</td>
</tr>
<tr>
<td>LC50 Inhalation:</td>
<td>&gt; 5 mg/L (rat, 4 hr)</td>
</tr>
</tbody>
</table>

Chronic toxicity

<table>
<thead>
<tr>
<th>Product Information</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Effects</td>
<td>No known effects under normal use conditions</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>See &quot;Other Information&quot; in this section.</td>
</tr>
</tbody>
</table>

<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 Toxic Effects

<table>
<thead>
<tr>
<th>Product Information</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitization</td>
<td>No sensitization responses were observed</td>
</tr>
<tr>
<td>Mutagenic Effects</td>
<td>Not mutagenic in AMES Test.</td>
</tr>
<tr>
<td>Target Organ Effects</td>
<td>None known.</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>None known.</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.

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

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 does not contain any substances regulated as pollutants 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 does not contain any substances regulated as hazardous air pollutants (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
This product does not contain any Proposition 65 chemicals.

<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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</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

16. OTHER INFORMATION

Issuing Date: 1987-09-23
Revision Date: 2011-01-13
Revision Note: (M)SDS sections updated.

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