Safety Data Sheet

SDS # : B-20041

Developer - Cyan

Issuing Date 2019-09-12  Revision Date 2019-09-12  Version 1

Active

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

Product Identifier

Product Name
Developer for iGen3 Digital Production Press, Xerox iGen4TM Press

Part no.
005R00648, 005R00562, 005R00664, 005R00693, 005R00706, 005R00709, 005R90263, 505S00002, 505S00007

Color
Cyan

Pure substance/mixture
Mixture

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
Manager, Environment, Health, Safety & Sustainability
askxerox@xerox.com

Emergency telephone
Safety Information US: (800) 275-9376
Chemical Emergency only (Chemetec) (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 explosive dust-air mixture if dispersed

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

<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>&gt;90</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Polyester resin</td>
<td>39382-25-7</td>
<td>3-6</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Cyan Pigment</td>
<td>147-14-8</td>
<td>&lt;1</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

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

Chronic toxicity
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

Indication of immediate medical attention and special treatment needed

<table>
<thead>
<tr>
<th>Protection of first-aiders</th>
<th>Notes to physician</th>
</tr>
</thead>
<tbody>
<tr>
<td>No special protective equipment required</td>
<td>Treat symptomatically</td>
</tr>
</tbody>
</table>

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
Flammability Not flammable. Will not readily ignite.
Flash point Not applicable

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
Methods for containment Prevent dust cloud
Methods for cleaning up Use a vacuum cleaner to remove excess, then wash with COLD water. Hot water fuses the toner making it difficult to remove

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 conditions
Keep container tightly closed in a dry and well-ventilated place, Store at room temperature

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>Cyan Pigment</td>
<td>TWA: 1 mg/m³</td>
<td></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>Appearance</th>
<th>Physical state</th>
<th>Color</th>
<th>Odor</th>
<th>Odor threshold</th>
<th>pH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder</td>
<td>Solid</td>
<td>Cyan</td>
<td>Faint</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Flash point Not applicable
Boiling point/range Not applicable
Softening point 49 - 60 °C / 120 - 140 °F
Evaporation rate Not applicable
Flammability Not flammable. Will not readily ignite.
Flammability Limits in Air Not applicable

Vapor pressure Not applicable
Vapor density Not applicable
Specific gravity 4-5
Water solubility Negligible
Partition coefficient Not applicable
Autoignition temperature Not applicable
Decomposition temperature Not determined
Viscosity 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
Oxidizing properties Not applicable

10. STABILITY AND REACTIVITY

Reactivity
No dangerous reaction known under conditions of normal use

Chemical stability
Stable under normal conditions.

**Possibility of hazardous reactions**

<table>
<thead>
<tr>
<th>Hazardous reactions</th>
<th>None under normal processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous polymerization</td>
<td>Hazardous polymerization does not occur</td>
</tr>
</tbody>
</table>

**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

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### 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**

<table>
<thead>
<tr>
<th>Irritation</th>
<th>No skin irritation, No eye irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
<td>&gt; 5 g/kg (rat)</td>
</tr>
<tr>
<td>Dermal LD50</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>

**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>Cyan Pigment</td>
<td></td>
<td></td>
<td>10000 mg/kg (rat)</td>
</tr>
</tbody>
</table>

**Chronic toxicity**

<table>
<thead>
<tr>
<th>Sensitization</th>
<th>No sensitization responses were observed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neurological Effects</td>
<td>No information available</td>
</tr>
<tr>
<td>Target organ effects</td>
<td>None known</td>
</tr>
</tbody>
</table>

**CMR Effects**

<table>
<thead>
<tr>
<th>Mutagenic effects</th>
<th>Not mutagenic in AMES Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>This product does not contain any known or suspected reproductive hazards</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Contains no ingredient listed as a carcinogen</td>
</tr>
</tbody>
</table>

**Other toxic effects**

<table>
<thead>
<tr>
<th>Aspiration Hazard</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other adverse effects</td>
<td>None known</td>
</tr>
</tbody>
</table>

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### 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></td>
<td>LC50=13.6 mg/L Morone saxatilis 96 h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and degradability**

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Not readily biodegradable

**Bioaccumulative potential**
- Bioaccumulation is unlikely

**Mobility in soil**
- Insoluble in water

### Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyan Pigment</td>
<td>6.6</td>
</tr>
</tbody>
</table>

**Other adverse effects**
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 treatment methods**
- **Waste Disposal 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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyan Pigment</td>
<td>Toxic</td>
</tr>
</tbody>
</table>

### 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.

**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**
- **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.

**US State Regulations**

**California Proposition 65**
This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**
This product does not contain any substances regulated by state right-to-know regulations.

### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Issuing Date</th>
<th>2019-09-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date</td>
<td>2019-09-12</td>
</tr>
<tr>
<td>Revision Note</td>
<td>Initial Release</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