Safety Data Sheet

SDS # : B-20057

Developer - Black

Issuing Date 2021-04-29 Revision Date 2022-03-28

Version 4

Active

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

Product Identifier

Product Name Develope	for Nuvera 100 MX Digital Production System, Nuvera 100 MX Production System, Nuvera 120 MX Digital Production System, Nuvera 120 MX Production System, Nuvera 144 MX Digital Production System, Nuvera 144 MX Production System, Nuvera 157 MX Digital Production System, Nuvera 200 MX Perfecting Production System, Nuvera 288 MX Perfecting Production System, Nuvera 314 MX Digital Production System
Part no.	502S67377, 502S31859
Color Pure substance/mixture	Black Mixture
Relevant identified uses of the subs	tance 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 cont Contact person E-mail address Emergency telephone	act Manager, Environment, Health, Safety & Sustainability askxerox@xerox.com 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

This product contains no hazardous ingredients that meet the threshold for classification of the 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.



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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

None required **Hazard Statements**

Precautionary Statements None required

Other hazards

Not a PBT according to REACH Annex XIII

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	CAS No.	Weight %	Classification (Reg. 1272/2008)	Hazard Statements
Steel powder	7439-89-6	>90		
Polyester Resin	39382-25-7	<10		
Iron oxide	1317-61-9	<10		
Carbon Black	1333-86-4	<1		
Titanium dioxide	13463-67-7	<0.1	Carc (Inhal) 2	H351

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

Full text of H- statements: see section 16

4. FIRST AID MEASURES

Description of first-aid measures

Description of first-aid measu	Ires
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
	0
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 an	d effects, both acute and delayed
	d enects, both acute and delayed
Acute toxicity	
Eyes	No known effect
Skin	No known effect
Inhalation	No known effect

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

No known effect

Ingestion



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Indication of immediate medical attention and special treatment needed

Protection of first-aidersNo special protective equipment requiredNotes to physicianTreat 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

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid breathing dust

Environmental precautions

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

Methods and material for containment and cleaning up Methods for containment Prevent dust cloud

Methods for containment Methods for cleaning up

Use an electrically protected vacuum cleaner to remove excess, then wash with COLD water. Hot water fuses the toner, making it difficult to remove

Reference to other sections

See section 12 for additional ecological information See Section 13 for additional information

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

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Incompatible products

Specific end uses

Xerographic printing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

None

Control parameters Exposure Limits

posure Limits	
ACGIH TLV TWA	10 mg/m ³ (inhalable particles)
ACGIH TLV TWA	3 mg/m ³ (respirable dust)
OSHA PEL TWA	15 mg/m ³ (total dust)
OSHA PEL TWA	5 mg/m ³ (respirable dust)
Xerox Exposure Limit	2.5 mg/m ³ (total dust)
Xerox Exposure Limit	0.4 mg/m ³ (respirable dust)

Component Information

Chemical Name	ACGIH TLV	OSHA PEL
Carbon Black	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³
Titanium dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³

Exposure controls

Engineering measures

None under normal use conditions

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

Eye/Face protection Hand protection Skin and body protection Respiratory protection Thermal hazards

No special protective equipment required No special protective equipment required No special protective equipment required No special protective equipment required. None under normal processing

Environmental Exposure Controls Environmental Exposure

Keep out of drains, sewers, ditches and waterways

Controls

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Physical state Color	Powder Solid Black		Odor Odor threshold pH	Faint Not applicable Not applicable
Flash point		Not applicable		
Melting / Free Boiling point Softening po	/range	Not applicable Not applicable 49 - 60 °C /	120 - 140 °F	-
Evaporation Flammability Flammability		Not applicable Not flammable. Will no Not applicable	t readily ignite.	
Vapor pressu Vapor densit Specific grav	у	Not applicable Not applicable 4-5		



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Water solubility	Negligible
2	
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

Other information

None

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use

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 toxicityProduct InformationIrritationOral LD50Dermal LD50LC50 Inhalation

Component Information

Chemical Name	LC50 Inhalation	Dermal LD50	Oral LD50
Steel powder			30 g/kg (Rat)
Iron oxide			10000 mg/kg (Rat)
Carbon Black		3 g/kg (Rabbit)	15400 mg/kg (Rat)
Titanium dioxide			10000 mg/kg (Rat)

Chronic toxicity Sensitization

Neurological Effects Target organ effects No sensitization responses were observed No information available None known

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CMR Effects			
Mutagenic effects	Not n	nutagenic in AMES Test	
Reproductive toxicity	This	product does not contain any known or susp	pected reproductive hazards
Carcinogenicity	See '	Other Information" in this section.	
Chemical Name		NTP	IARC
Carbon Black			2B
Titanium dioxide			2B

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.

The IARC (International Agency for Research on Cancer) has listed titanium dioxide as "possibly carcinogenic to humans". However, Xerox has concluded that the presence of titanium dioxide in this mixture does not present a health hazard. The IARC classification is based on studies in rats using high concentrations of pure, unbound TiO₂ particles of respirable size. Epidemiological studies do not suggest a carcinogenic effect in humans. In addition, the titanium dioxide in this mixture is encapsulated in a matrix or bound to the surface of the toner.

Other toxic effects	
Aspiration Hazard	Not applicable
Other adverse effects	None known

Information on other hazards

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors

12. ECOLOGICAL INFORMATION

Toxicity

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On available data, the mixture / preparation is not harmful to aquatic life

Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Steel powder		LC50= 13.6 mg/L Morone		
		saxatilis 96 h		
Carbon Black				EC50 > 5600 mg/L 24 h

Persistence and degradability

Not readily biodegradable

Bioaccumulative potential

Bioaccumulation is unlikely

Mobility in soil

Insoluble in water

Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)

Endocrine disrupting properties

This product does not contain any known or suspected endocrine disruptors

Other adverse effects

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.

13. DISPOSAL CONSIDERATIONS

<u>Waste treatment methods</u> 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.

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

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.

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Titanium dioxide is regulated under California Proposition 65 only if a product results in exposure in the form of "airborne, unbound particles of respirable size". Toner products do not result in exposure to titanium dioxide in the form of "airborne, unbound particles of respirable size". Therefore, the requirements of Proposition 65 do not apply to this product.

	unbound particles of respirable size . Therefore, the	apply to this product.	
	Chemical Name	CAS No.	California Prop. 65
Carbon Black		1333-86-4	Carcinogen
	Titanium dioxide	13463-67-7	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.

16. OTHER INFORMATION

Issuing Date2021-04-29Revision Date2022-03-28Revision Note(M)SDS sections updated:, 3Full text of H-Statements referred to under sections 2 and 3

H351 - Suspected of causing cancer

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.

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