

Material Safety Data Sheet

SDS #: B-2031

Developer-Black

Issuing Date 25-Apr-2008

Revision date 04-Apr-2025

Revision Number 1

Active

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

Product Identifier

Product Name

Developer for WorkCentre 5222, WorkCentre 5225, WorkCentre 5225A, WorkCentre 5230, WorkCentre 5230A

Part no. 101R00434, 101R00435

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

Importer

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://safetydatasheets.business.xerox.com>

SECTION 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.

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

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical name	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Hazard Statements
Ceramic materials	66402-68-4	85-95	--	--
Polymer	292629-36-8	1-10	--	--
Carbon black	1333-86-4	<1	--	--
Titanium dioxide	13463-67-7	<0.5	Carc(Inhal) 2	H351

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

Full text of H- statements: see section 16

SECTION 4. FIRST AID MEASURES

Description of first-aid measures

General advice Show this material safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.

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

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

Protection of first-aiders No special protective equipment required

Notes to physician Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Use water spray or fog; do not use straight streams
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/flammable 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

SECTION 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 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

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice
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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure 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
Ceramic materials	TWA: 5 mg/m ³ TWA: 0.02 mg/m ³ TWA: 0.1 mg/m ³	Ceiling: 5 mg/m ³
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	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

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Powder	Odor	Faint
Physical state	Solid	Odor threshold	Not applicable
Color	Black	pH	Not applicable

Flash point Not applicable

Melting point / freezing point Not applicable

Initial boiling point and boiling range Not applicable

Softening point

Evaporation rate Not applicable

Flammability Not flammable. Will not readily ignite.

Flammability Limits in Air Not applicable

Vapor pressure @20 °C (kPa) Not applicable

Relative 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

Other information

None

SECTION 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

SECTION 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

Component Information

Chemical name	Inhalation LC50	Dermal LD50	Oral LD50
Carbon black		3 g/kg (Rabbit)	15400 mg/kg (Rat)
Titanium dioxide			10000 mg/kg (Rat)

Chronic toxicity

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

CMR

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.

Chemical name	NTP	IARC
Carbon black		2B

Titanium dioxide		2B
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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

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

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

Component Information

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
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.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal considerations

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.

SECTION 14. TRANSPORT INFORMATION

This material is not subject to regulation as a hazardous material for shipping.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

OSHA Regulatory Status

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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.

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

Legend

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List

US 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.

CWA (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 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.

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.

Chemical name	CAS No.	California Proposition 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.

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ceramic materials		X	X	X	
Carbon black	X	X	X	X	
Titanium dioxide	X	X	X		

SECTION 16. OTHER INFORMATION

Issuing Date 25-Apr-2008
Revision date 04-Apr-2025
Revision Note Update to Format
Full text of H-Statements referred to under sections 2 and 3
 H351 - Suspected of causing cancer if inhaled

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 of Safety Data Sheet