SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200) and Canada Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), as amended

SDS # : A-10740

455 Toner Black

Issuing Date 13-Oct-2025 **Revision date** 17-Dec-2025 **Revision Number** 1

1. Identification

Product identifier

Product Name

455 Toner for Lexmark MS53, Lexmark MS63

Part no. 29S1000, 36S4525, 36S4526, 36S4527, 40S2457, 40S2458, 40S2459

Other means of identification

Color Black
Pure substance/mixture Mixture
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Printing

Restrictions on use No information available.

Details of the supplier of the safety data sheet

Manufacturer Address
Lexmark International, Inc.
A Subsidairy of Xerox Corporation
740 West New Circle Road
Lexington, Kentucky 40550

Lexmark Canada
2 Sheppard Avenue East, Suite 200
Toronto, Ontario, M2N 5Y7

Emergency telephone number

Initial supplier phone number 1-800-539-6275 (U.S. & Canada)

Emergency Telephone Safety Information US: (800) 275-9376
Chemical Emergency only (Chemtrec) (800) 424-9300

E-mail address adam.toth@lexmark.com

For the most current document https://www.lexmark.com/en_us/supplies-and-parts/printer-supplies-finder/material-safety-data-sheets.html

2. Hazard(s) identification

Classification
This product is not considered hazardous by either the US OSHA Hazard Communication Standard 2024, or Canada Hazardous Products Act (HPA) and Hazardous Products Regulation (HPR), as amended.

Label elements
Not classified

Hazard statements
No hazard statements required.

Other information
May form explosible dust-air mixture if dispersed.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Chemical name	CAS No.	Weight-%	GHS Classification
Polyester Resin	Trade secret	65-75	--
Iron Oxide	1317-61-9	20-30	--
Charge Control Agent	Trade secret	<1.5	Flam. Sol. 1 (H228) Acute Tox 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Titanium dioxide	13463-67-7	<1	--

Full text of H- and EUH-phrases: see section 16
Note
"--" indicates no classification or hazard statements apply.

4. First-aid measures

Description of first aid measures

General advice For external use only. Get medical attention if irritation or other symptoms occur. Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Ingestion Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms Dust irritates eyes and air passages.

Effects of Exposure No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Use water spray or fog; do not use straight streams.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical Fine dust dispersed in air may ignite.

Hazardous combustion products Hazardous decomposition products due to incomplete combustion. Carbon dioxide (CO2). Nitrogen oxides (NOx).

Explosion data
Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters In the event of fire and/or explosion do not breathe fumes. Wear fire/flame resistant/retardant clothing. Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid generation of dust. Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Prevent dust cloud.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections See section 8 for more information
See section 16 for more information

7. Handling and storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Control Parameters
Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Titanium dioxide	TWA: 0.2 mg/m³ nanoscale respirable particulate matter TWA: 2.5 mg/m³ finescale respirable particulate matter	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	TWA: 2.4 mg/m³; CIB 63 fine TWA: 0.3 mg/m³; CIB 63 ultrafine, including engineered nanoscale IDLH: 5000 mg/m³

Chemical name	Alberta	British Columbia	Ontario	Quebec
Titanium dioxide	TWA: 10 mg/m³;	TWA: 10 mg/m³; total dust TWA: 3 mg/m³; respirable fraction	TWA: 10 mg/m³;	TWAEV: 10 mg/m³; total dust

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
Titanium dioxide	TWA: 0.2 mg/m³; nanoscale respirable particulate matter TWA: 2.5 mg/m³; finescale respirable particulate matter	TWA: 10 mg/m³;	TWA: 0.2 mg/m³; nanoscale respirable particulate matter TWA: 2.5 mg/m³; finescale respirable particulate matter	TWA: 0.2 mg/m³; nanoscale respirable particulate matter TWA: 2.5 mg/m³; finescale respirable particulate matter

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
Titanium dioxide	TWA: 10 mg/m³; STEL: 20 mg/m³;	TWA: 0.2 mg/m³; nanoscale respirable particulate matter TWA: 2.5 mg/m³; finescale respirable particulate matter	TWA: 10 mg/m³; STEL: 20 mg/m³;	TWA: 30 mppcf; TWA: 10 mg/m³; STEL: 20 mg/m³;

Biological occupational exposure limits
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls None under normal use conditions.

Individual protection measures, such as personal protective equipment

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 protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Thermal hazards	None under normal processing.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Powder
Physical state	Solid
Color	Black
Odor (includes odor threshold)	Faint
Odor threshold	Not applicable

Property	**Values**	**Remarks • Method**
Melting point / freezing point	Not applicable	None known
Boiling point (or initial boiling point or boiling range)	Not applicable	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	Not flammable	
Lower flammability or explosive limits	Not flammable	
Flash point	Not applicable	None known
Autoignition temperature	Not applicable	None known
Decomposition temperature	Not applicable	None known
SADT (°C)	No data available	None known
pH	Not applicable	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	Not applicable	None known
Dynamic viscosity	Not applicable	None known
Solubility	No data available	None known
Water solubility	Negligible	None known
Partition coefficient n-octanol/water (log value)	Not applicable	None known
Vapor pressure (includes evaporation rate)	Not applicable	None known
Evaporation rate	Not applicable	None known
Density and/or relative density	1 - 2	None known
Bulk density	Not applicable	
Liquid Density	Not applicable	
Relative vapor density	Not applicable	None known
Particle characteristics		None known
Particle Size	No data available	
Particle Size Distribution	4 - 9 micron	

Other information

VOC content	None

Softening point 49 - 60 °C / 120 - 140 °F

Information with regard to physical hazard classes

Explosive properties: Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard

10. Stability and reactivity

Reactivity No dangerous reaction known under conditions of normal use.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid Generation/formation of dust.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None under normal use conditions.

11. Toxicological information

Note: The toxicity data noted below is based on the test results of similar reprographic materials.

Information on likely routes of exposure

Product Information .

Inhalation No known effects under normal use conditions.

Eye contact No hazard from product as supplied.

Skin contact No known effects under normal use conditions.

Ingestion No hazard from product as supplied.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity .

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral)	5,353.20 mg/kg
ATEmix (dermal)	4,421.80 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapor)	99,999.00 mg/L
ATEmix (inhalation-dust/mist)	99,999.00 mg/L

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Iron Oxide	> 10000 mg/kg (Rat)	-	-
Charge Control Agent	-	> 2000 mg/kg (Rat)	-

Titanium dioxide	> 2000 mg/kg (Rat)	-	> 5.09 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Not mutagenic in AMES Test.

Carcinogenicity

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 TiO_2 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.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Titanium dioxide	A3 - Confirmed animal carcinogen (with unknown relevance to humans)	Group 2B - Possibly carcinogenic to humans	-	Present

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

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.

12. Ecological information

Ecotoxicity Not considered to be harmful to aquatic life.

Aquatic ecotoxicity

Product Information

96-hour LC50 LC50: > 625, NOEC: = 625 mg/L *Pimephales promelas*
48-hour EC50 EC50: 625, NOEC: = 40 mg/L *Daphnia magna*
72-hour EC50 EC50: = 370, ErC50: >625, EyC50: = 368 mg/L *Pseudokirchneriella subcapitata*

Product Information					
Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth	Pseudokirchneriella subcapitata	EC50	370 mg/L	72 hours	Harmless to aquatic organisms up to the tested concentration

Inhibition Test					
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	ERC50	>625 mg/L	72 hours	Harmless to aquatic organisms up to the tested concentration
OECD Test No. 201: Freshwater Alga and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	EYC50	638 mg/L	72 hours	Harmless to aquatic organisms up to the tested concentration
OECD Test No. 203: Fish, Acute Toxicity Test	Pimephales promelas	LC50	>625 mg/L	96 hours	Harmless to aquatic organisms up to the tested concentration
OECD Test No. 203: Fish, Acute Toxicity Test	Daphnia magna Pimephales promelas	NOEC	625 mg/L	96 hours	Harmless to aquatic organisms up to the tested concentration
OECD Test No. 202: Daphnia sp., Acute Immobilization Test	Daphnia magna	EC50	625 mg/L	48 hours	Harmless to aquatic organisms up to the tested concentration
OECD Test No. 202: Daphnia sp., Acute Immobilization Test	Daphnia magna	NOEC	40 mg/L	48 hours	Harmless to aquatic organisms up to the tested concentration

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Charge Control Agent	-	LC50: =5.5mg/L (96h, Oncorhynchus mykiss)	-	-

Terrestrial ecotoxicity Based on available data, the classification criteria are not met.

Persistence and degradability Not readily biodegradable.

Bioaccumulative potential

Chemical name	Partition coefficient	Bioconcentration factor (BCF)	Trophic magnification factor (TMF)
Charge Control Agent	2.32	-	-

Mobility in soil The product is insoluble and floats on water.

Other adverse effects No information available.

Endocrine disrupting properties This mixture does not contain any substance that has endocrine disrupting properties with respect to non-target organisms.

13. Disposal considerations

Disposal methods

Waste from residues/unused Can be landfilled or incinerated, when in compliance with local regulations.

products

Contaminated packaging Dispose of contents/containers in accordance with local regulations.

California waste information This product contains one or more substances that are listed with the State of California as a hazardous waste.

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. Do Not Pour Product Down the Drain; Do Not Rinse the Container Before Disposal.

14. Transport information

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

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. Regulatory information

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

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA Listed / Active or Exempt.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
Polyester Resin	-	-	Unknown *
Iron Oxide	1317-61-9	Present	Active
Charge Control Agent	-	Present	Active
Titanium dioxide	13463-67-7	Present	Active

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements.

DSL/NDSL Complies.
EINECS/ELINCS Complies.
ENCS Complies.
IECSC Contact supplier for inventory compliance status.

KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIoC	Contact supplier for inventory compliance status.
TCSI	Contact supplier for inventory compliance status.

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals
TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Charge Control Agent	1.0

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Charge Control Agent	-	X	-	-

CAA (Clean Air Act)
This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

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 contains the following Proposition 65 chemicals:.
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	California Proposition 65
Titanium dioxide	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	New Jersey	Massachusetts	Pennsylvania
Iron Oxide	-	X	-
Charge Control Agent	X	-	X
Titanium dioxide	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA	**Health hazards** 0	**Flammability** 0	**Instability** 0	**Special hazards** -
HMIS	**Health hazards** 0	**Flammability** 0	**Physical hazards** 0	**Personal protection** X

Key or legend to abbreviations and acronyms used in the safety data sheet
List may include phrases which are not applicable to this product

Full text of H-Statements referred to under section 3
H228 - Flammable solid
H302 - Harmful if swallowed
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	U.S. Environmental Protection Agency
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
KECI	Korean Existing Chemicals Inventory

LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NTP	National Toxicology Program (United States)
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
OSHA	Occupational Safety and Health Administration of the US Department of Labor
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Key literature references and sources for data used to compile the SDS
U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)

U.S. Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

Revision date 17-Dec-2025

Revision Note Update to Format.

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet