

Safety Data Sheet

MSDS No : TN366GE01

Date of issue : 2024/8/23

Revision History : 1

1. PRODUCT AND COMPANY IDENTIFICATION

<u>Manufacturer</u>	:	FUJIFILM Business Innovation Corp.
<u>Address</u>	:	7-3, Akasaka 9-choume, Minato-ku, Tokyo 107-0052, Japan
<u>Contact Point</u>	:	[Department] Environment & Product Safety Product Quality Management Customer Satisfaction Quality Assurance Group [Telephone number] +81-46-237-1686 [FAX Number] +81-46-238-5796 [E-mail] dge-fb-msds-admin@fujifilm.com

Product Name	:	ApeosPrint 4620 SDN, ApeosPrint 4620 SDW, Apeos 4620 SDF, Apeos 4620 SZ, Apeos 4620 SX Toner(Black)
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2. HAZARD IDENTIFICATION

GHS classification

Not classified as hazardous mixture of GHS classification.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Distinction of substance or mixture : Mixture

Chemical Nature :

Chemical Name	Ingredients (% by wt.)	CAS Number
Styrene-acrylate-copolymer	65 - 80%	Undisclosed
Ester Wax	10 - 20%	Undisclosed
Carbon Black	5 - 9%	1333-86-4
PMMA	1 - 4%	9011-14-7
Styrene-acrylate Resin	1 - 3%	Undisclosed
Resin	0.5 - 3%	Undisclosed
Amorphous silica	< 1.5%	11295-52-5
Zinc stearate	< 0.2%	557-05-1

This product does not contain Lead, Mercury, Cadmium, Hexavalent Chromium, Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) or Diisobutyl phthalate (DIBP) intentionally.

4. FIRST-AID MEASURES

4.1. Description of first aid measures

General advice : If symptoms persist, call a physician.

Inhalation : Remove to fresh air. Get immediate medical advice/attention.

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

Skin contact : Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.

Ingestion : Rinse mouth immediately and drink plenty of water. Get immediate medical advice/attention.

Self-protection of the first aider : No information available.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation (dust): No specific effects and/or symptoms have been reported or known
 For large quantities: May cause irritation to the respiratory system.
 Increased difficulty in breathing. Sneezing. Coughing
 Eye contact: May cause eye irritation
 Skin contact: Repeated and/or prolonged skin contact may cause irritation
 Ingestion: May cause stomach ache. Unlikely route of exposure

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : Treat symptomatically.

5.FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical : May form explosive dust clouds in air.
 Hazardous combustion products : No information available.

5.3. Advice for firefighters

Special protective equipment for firefighters : Do not use high-pressure water in order to prevent creating a dust cloud and spreading fire dust. Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from any source.

6.ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P may be appropriate.

For emergency responders : Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions : Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Methods for containment : Sweep the spilt toner or remove it with a vacuum cleaner and transfer into a sealed container carefully. Sweep slowly to minimize generation of dust during cleanup. If a vacuum cleaner is used, the motor must be rated as dust explosion proof. Potential for very fine particles to be taken into the vacuum only to be passed back into the environment due to pore size in the bag or filter.

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.

6.4. Reference to other sections

Reference to other sections : See section 8 for more information. See section 13 for more information.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling : Keep out of the reach of children. Avoid generation of dust. Avoid inhalation of high concentrations of dust. Avoid contact with eyes.

General hygiene considerations : Handle in accordance with good industrial hygiene and safe practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions : Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific use(s)

Specific use(s) : These products are black toner in a cartridge for FUJIFILM Business Innovation Corp. laser printers, multifunction devices and fax receivers. This cartridge should be used as supplied by FUJIFILM Business Innovation and for use in the products stated.

Risk Management Methods (RMM) : The information required is contained in this Safety Data Sheet.

8.EXPOSURE CONTROLS /PERSONAL PROTECTION

8.1. Control Parameters

Exposure guidelines

Chemical name	Japan Society of Occupational Health	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH TLV
Carbon Black	TWA: 4 mg/m ³ TWA: 1 mg/m ³	-	Refer to the permissible concentration in the latest version of ACGIH

8.2. Exposure controls

Appropriate engineering controls	: Good general ventilation should be sufficient under normal use.
Personal protective equipment	: Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied.
Eye/face protection	: If there is a risk of contact: Safety goggles.
Hand protection	: If there is a risk of contact: Protective gloves.
Skin and body protection	: Long sleeved clothing and long pants.
Respiratory protection	: In case of large spillages: Wear suitable respiratory protective equipment.
Thermal hazards	: No information available.
General hygiene considerations	: Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	: Avoid release to the environment.

9.PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	: Powder
Color	: Black
Odor	: Odorless
Odor threshold	: No information available
Melting point / freezing point	: 110 °C
Initial boiling point and boiling range	: No information available
Flammability	: No data available
Flammability Limit in Air	
Upper flammability or explosive limits	: No data available
Lower flammability or explosive limits	: No data available
Flash point	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
pH	: No information available
pH (as aqueous solution)	: No information available
Kinematic viscosity	: No data available

Dynamic viscosity	:	No information available
Water solubility	:	Insoluble in water
Solubility(ies)	:	No information available
Partition coefficient	:	No data available
Vapor pressure	:	No data available
Relative density	:	1.15
Bulk density	:	No data available
Liquid density	:	No data available
Relative vapor density	:	No data available
Particle characteristics		
Particle Size	:	No data available
Particle Size Distribution	:	No data available

9.2. Other Information

Information with regard to physical hazard classes

Explosive properties	:	Explosive limits of toner particles suspended in air approximately equal to that of coal dust
Oxidizing properties	:	No information available
Other safety characteristics	:	No information available

10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity	:	No information available.
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10.2. Chemical stability

stability	:	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	:	None under normal processing.
10.4. Conditions to avoid		

10.4. Conditions to avoid

Conditions to avoid	:	Keep away from heat. Avoid friction, sparks, or other means of ignition.
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10.5. Incompatible materials

Incompatible materials	:	Strong oxidizing agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	:	Carbon monoxide. Carbon dioxide (CO ₂). Nitrogen oxides (NO _x).
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11.TOXICOLOGICAL INFORMATION

The toxicity data noted below is based on test results of this materials or similar materials.

11.1. Information on hazard classes as deflinded in Regulation(EC)No.1272/2008

Information on likely routes of exposure

Product Information

Ingestion	: Acute LD50 > 2000 mg/kg (OECD 423 method)
Eye contact	: No information available
Skin contact:	: No information available
Symptoms related to the physical, chemical and toxicological characteristics	
Symptoms	: No information available
Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Skin corrosion/irritation	: Non-irritant (OECD 404 method)
Serious eye damage/eye irritation	: Non-irritant (OECD 405 method)
Respiratory or skin sensitization	: It is not a skin sensitizer (OECD 429 method)
Germ cell mutagenicity	: Ames Assay: Negative (OECD 471 method)
Carcinogenicity	: Carbon Black: In 1996, the IARC re-evaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals, for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats did not show any association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.
Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA. ^{ref.1)}	
Reproductive toxicity	: No information available.
Specific Target Organ Toxicity Single Exposure	: No information available.
Specific Target Organ Toxicity Repeated	: No information available.
Aspiration hazard	: No information available.
11.2. Infoemation on other hazards	
Endocrine disrupting properties	: No information available.
11.3. Other information	
Other adverse effects	: No information available.

12.ECOLOGICAL INFORMATION

The toxicity data noted below is based on test results of this materials or similar materials.

12.1. Toxicity

Ecotoxicity

Fish 96hr LL50 (Oryzias latipes)	: >500 mg/L (Not applicable to GHS category) (based on toxicity data of the ingredients of print)
Daphnia 48hr EL50 (Daphnia magna)	: >100 mg/L (Not applicable to GHS category) (based on toxicity data of the ingredients of print)
Algae 72hr ErL50 (Selenastrum capricornutum)	: >100 mg/L (Not applicable to GHS category) (based on toxicity data of the ingredients of print)

12.2. Persistence and degradability

Persistence and degradability	: No information available.
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12.3. Bioaccumulative potential

Bioaccumulation	: No information available.
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12.4. Mobility in soil

Mobility in soil	: No information available.
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Mobility

Mobility	: No information available.
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12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment	: This product contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This product contains no substance considered to be very persistent nor very bioaccumulating (vPvB).
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12.6. Endocrine disrupting properties

Endocrine disrupting properties	: No information available.
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12.7. Other adverse effects

Other adverse effects	: No information available.
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13.DISPOSAL CONSIDERATIONS

Dispose off in accordance with national and local regulations.

14.TRANSPORT INFORMATION

Transport in accordance with national, and local regulations.

UN Hazard Class	: Not regulated
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UN Number	: Not regulated
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Air Transport

IATA	: Not regulated
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Sea Transport

IMDG	: Not regulated
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Train Transport

RID	: Not regulated
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Environmental hazards	: No available.
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Special precautions for user	: None
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Special Provisions	
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15. REGULATORY INFORMATION

Ensure this product in compliance with national requirements and ensure conformity to local regulations.

16. OTHER INFORMATION

The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.

CAS Registry Number(R) is a Registered Trademark of the American Chemical Society.

References

- 1 :
 - IARC Monographs on the Evaluation Carcinogenic Risks to Humans (WHO International Agency for Research on Cancer)
 - National Toxicology Program(NTP) Report on Carcinogens
 - Occupational Safety and Health Administration(OSHA)