Safety Data Sheet

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SDS # : TCW 0525 R - 01 EU EN
Version : 02

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product name Canon Cartridge 731 Cyan (for Laser Beam Printer)

Product Code(s) 6271B002

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use Toner for electrophotographic machines

1.3. Details of the supplier of the safety data sheet

Supplier
Importer
Canon Europa N.V.
Bovenkerkerweg 59, 1185XB Amstelveen, The Netherlands
+31 20 5458545, +31 20 5458222
www.canon-europe.com, ceu-Reach@canon-europe.com

Manufacturer
Canon Inc.
30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

1.4. Emergency Telephone Number

Austria	+43 (0) 1 406 43 43	**Belgium**	+32 (0) 70 245 245
Bulgaria	112	**Croatia**	+385 (0)1-23-48-342
Cyprus	1401	**Czech Republic**	+420 224919293
Denmark	+45 82 12 12 12 [*1]	**Estonia**	16662
Finland	+358 (0)9 471977	**France**	+33 (0)1 45 42 59 59
Greece	+30 210 7793777	**Hungary**	+36 80 20 11 99
Italy	+39 (0)55 7947819	**Latvia**	+371 67042473
Lithuania	+370 687 53378	**Luxembourg**	112
Malta	112	**Netherlands**	+31 (0)30-2748888 [*2]
Poland	112	**Portugal**	+351 808 250 143
Romania	+40 21 318 36 06	**Slovakia**	+421 2 5477 4166
Slovenia	112	**Spain**	112
Sweden	112 [*3]	**United Kingdom**	111 (UK only)
Iceland	112	**Liechtenstein**	145
Norway	+47 22 59 13 00	**Switzerland**	145

*1 Kontakt Giftlinien på tlf.nr.: 82 12 12 12 (åbent 24 timer i døgnet). Se punkt 4 om førstehjælp.
*2 Only for the purpose of informing medical personnel in cases of acute intoxications.
*3 Ask for Poison Information

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Not classified

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Not classified

2.2. Label Elements

Labelling according to Regulation (EC) No 1272/2008
Not required

Hazard pictograms
Not required

Signal word
Not required

Hazard statements
Not required

Precautionary Statements - EU (§28, 1272/2008)
Not required

Other Information
None

2.3. Other Hazards

None

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS-No	EC-No	REACH registration number	Weight %	Classification (67/548)	Indication of danger	Classification (Reg. 1272/2008)
Styrene acrylate copolymer	CBI	CBI	None	75 - 85	None	None	None
Wax	CBI	CBI	None	5 - 10	None	None	None
Pigment	CBI	CBI	None	5 - 10	None	None	None
Amorphous silica	7631-86-9	231-545-4	01-2119379499-16-xxxx	1 - 3	None	None	None
Titanium dioxide	13463-67-7	236-675-5	None	< 1	None	None	None

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately if symptoms occur.

Skin Contact Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.

Eye Contact Flush with plenty of water. Get medical attention immediately if symptoms occur.

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

Inhalation None under normal use. Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.

Ingestion None under normal use.

Skin Contact	None under normal use.
Eye Contact	None under normal use. May cause slight irritation.
Chronic Effects	None under normal use. Prolonged inhalation of excessive amounts of dust may cause lung damage.

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

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Use CO2, dry chemical, or foam, Water.

Unsuitable extinguishing media
None

5.2. Special hazards arising from the substance or mixture

Special Hazard
May form explosive mixtures with air.

Hazardous combustion products
Carbon dioxide (CO_2), Carbon monoxide (CO)

5.3. Advice for firefighters

Special protective equipment for fire-fighters
None

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing dust. Avoid contact with skin, eyes and clothing.

6.2. Environmental Precautions

Keep out of waterways.

6.3. Methods and material for containment and cleaning up

Clean up promptly by scoop or vacuum. If a vacuum cleaner is used, be sure to use a model with dust explosion safety measures. May form explosive mixtures with air.

6.4. Reference to other sections

None

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid breathing dust. Avoid contact with skin, eyes and clothing. Clean contaminated surface thoroughly. Use only with adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Incompatible with oxidizing agents.

7.3. Specific end uses

Toner for electrophotographic machines. Obtain special instructions before use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	EU OEL	Austria	Belgium	Bulgaria	Cyprus
Amorphous silica 7631-86-9	None	TWA: 4 mg/m³ inhalable fraction	None	None	None
Titanium dioxide 13463-67-7	None	TWA: 5 mg/m³ alveolar dust, respirable fraction STEL: 10 mg/m³ alveolar dust, respirable fraction	TWA: 10 mg/m³	TWA: 10.0 mg/m³ respirable dust	None
Chemical name	**Czech Republic**	**Denmark**	**Finland**	**France**	**Germany**
Amorphous silica 7631-86-9	TWA: 4.0 mg/m³ amorphous SiO2	None	TWA: 5 mg/m³	None	TRGS TWA: 4 mg/m³ inhalable fraction DFG TWA: 4 mg/m³ inhalable fraction
Titanium dioxide 13463-67-7	None	TWA: 6 mg/m³	None	TWA: 10 mg/m³	None
Chemical name	**Greece**	**Hungary**	**Ireland**	**Italy**	**Netherlands**
Amorphous silica 7631-86-9	None	None	TWA: 6 mg/m³ total inhalable dust TWA: 2.4 mg/m³ respirable dust	None	None
Titanium dioxide 13463-67-7	TWA: 10 mg/m³ inhalable fraction TWA: 5 mg/m³ respirable fraction	None	TWA: 10 mg/m³ total inhalable dust TWA: 4 mg/m³ respirable dust	None	None
Chemical name	**Poland**	**Portugal**	**Romania**	**Slovakia**	**Spain**
Amorphous silica 7631-86-9	None	None	None	TWA: 4.0 mg/m³ total aerosol	None
Titanium dioxide 13463-67-7	TWA: 10.0 mg/m³ total inhalable dust TWA: 10 mg/m³ STEL: 30 mg/m³	TWA: 10 mg/m³	TWA: 10 mg/m³ STEL: 15 mg/m³	None	TWA: 10 mg/m³
Chemical name	**Sweden**	**United Kingdom**	**Norway**	**Switzerland**	**Turkey**
Amorphous silica 7631-86-9	None	TWA: 6 mg/m³ inhalable dust TWA: 2.4 mg/m³ respirable dust	TWA: 1.5 mg/m³ respirable dust STEL: 3 mg/m³ respirable dust	TWA: 4 mg/m³ inhalable	None
Titanium dioxide 13463-67-7	TLV: 5 mg/m³ total dust	TWA: 10 mg/m³ total inhalable TWA: 4 mg/m³ respirable	TWA: 5 mg/m³ STEL: 10 mg/m³	TWA: 3 mg/m³ respirable	None

8.2. Exposure controls

Appropriate engineering controls None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye/face Protection	Not required under normal use.
Skin Protection	Not required under normal use.
Respiratory Protection	Not required under normal use.
Thermal hazards	Not Applicable

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Cyan ; powder
Odor	Slight odor
Odor threshold	No data available
pH	Not Applicable
Melting/Freezing point (°C)	80-130 (Softening point)
Boiling Point/Range (°C)	Not Applicable
Flash Point (°C)	Not Applicable
Evaporation Rate	Not Applicable
Flammability (solid, gas)	Not flammable; estimated
Flammability Limits in Air	
Upper Flammability Limit	Not Applicable
Lower Flammability Limit	Not Applicable
Vapor pressure	Not Applicable
Vapor Density	Not Applicable
Relative density	1.0-1.2
Solubility(ies)	Organic solvent; partly soluble
Partition coefficient: n-octanol/water	Not Applicable
Autoignition Temperature (°C)	No data available
Decomposition Temperature (°C)	> 200
Viscosity (mPa s)	Not Applicable
Explosive properties	May form explosive mixtures with air
Oxidizing properties	No data available

9.2. Other Information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

None

10.2. Chemical stability

Stable

10.3. Possibility of Hazardous Reactions

None

10.4. Conditions to Avoid

None

10.5. Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents.

10.6. Hazardous Decomposition Products

Carbon dioxide (CO_2), Carbon monoxide (CO)

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Estimate: LD50 > 2000 mg/kg (Ingestion)
Skin corrosion/irritation	Estimate: Non-irritant
Serious eye damage/eye irritation	Estimate: Transient slight conjunctival irritation only.
Sensitization	Estimate: Non-sensitizing
Germ cell mutagenicity	Ames Test (S. typhimurium, E. coli): Negative
Carcinogenicity	The IARC evaluated titanium dioxide as a Group 2B carcinogen, for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the evidence such as development of lung tumors in rats receiving chronic inhalation exposure to powdered titanium dioxide at levels that induce particle overload of the lung. However, there is an inhalation study of a toner containing titanium dioxide which suggested no association between toner exposure and tumor development in rats.
Reproductive Toxicity	No data available
STOT - single exposure	No data available
STOT - repeated exposure	Muhle et al. reported pulmonary response upon chronic inhalation exposure in rats to a toner enriched in respirable-sized particles compared to commercial toner. No pulmonary change was found at 1 mg/m^3 which is most relevant to potential human exposure. A minimal to mild degree of fibrosis was noted in 22% of the animals at 4 mg/m^3, and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m^3. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.
Aspiration hazard	No data available
Other Information	No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity effects
Estimate: Fish, 96h LC50 > 100 mg/l
Estimate: Crustaceans, 48h EC50 > 100 mg/l
Estimate: Algae, ErC50(0-72h) > 100 mg/l

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

DO NOT put toner or a toner container into fire. Heated toner may cause severe burns. DO NOT dispose of a toner container in a plastic crusher. Use a facility with dust explosion prevention measures. Finely dispersed particles form explosive mixtures with air. Dispose of in accordance with local regulations.

SECTION 14: Transport information

14.1. UN number	None
14.2. UN Proper Shipping Name	None
14.3. Transport Hazard Class	None
14.4. Packing Group	None
14.5. Environmental Hazards	No special environmental precautions required.
14.6. Special Precautions for users	None
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not Applicable

SECTION 15: Regulatory information

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

(EC) No 1907/2006 Authorisation	Not regulated
(EC) No 1907/2006 Restriction	Not regulated
(EC) No 1005/2009	Not regulated
(EC) No 850/2004	Not regulated
(EU) No 649/2012	Not regulated
Other Information	None

15.2. Chemical safety assessment

None

SECTION 16: Other information

Key literature references and sources for data
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- EU Directive 1999/45/EC
- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EU) No 649/2012

Key or legend to abbreviations and acronyms used in the safety data sheet
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern
- IARC: International Agency for Research on Cancer
- EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU.
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- CBI: Confidential Business Information

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