

Safety Data Sheet

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: High Capacity Toner Cartridge (Black) S050190

Recommended use of the chemical and restrictions on use

Recommended use:

Toner for electrophotographic printing

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Supplier in Australia:

EPSON Australia Pty Limited
3 Talavera Road, North Ryde, NSW 2113, Australia
(02) 8899 3666 www.epson.com.au

Supplier in New Zealand:

EPSON New Zealand Pty Limited
7-9 Fanshawe Street, Auckland 1010, New Zealand
(09) 366 6855 www.epson.co.nz

Emergency phone number

Australia (02) 8899 3666 (Mon-Fri, 9AM-5PM, AEST)
New Zealand (09) 366 6855 (Mon-Fri, 9AM-5PM, NZST)

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

The product is not classified as dangerous according to GHS - Fifth revised edition.

Label elements

The product is not classified as dangerous according to Australia WHS 2012.

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

No data available

Mixtures

Hazardous components within the meaning of GHS regulation and related classifications:

60% ~ 70% Styrene / acrylate resin

The product is not classified as dangerous according to GHS - Fifth revised edition.

10% ~ 20% Iron oxide(Fe₂O₃)

CAS: 1309-37-1, EC: 215-168-2

The product is not classified as dangerous according to GHS - Fifth revised edition.

1% ~ 10% Carbon black

CAS: 1333-86-4, EC: 215-609-9

The product is not classified as dangerous according to GHS - Fifth revised edition.

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1% ~ 10% Polyethylene

The product is not classified as dangerous according to GHS - Fifth revised edition.

1% ~ 10% Amorphous silica

CAS: 7631-86-9, EC: 231-545-4

The product is not classified as dangerous according to GHS - Fifth revised edition.

~ 1% Titanium dioxide

CAS: 13463-67-7, EC: 236-675-5

The product is not classified as dangerous according to GHS - Fifth revised edition.

4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

None

Indication of immediate medical attention and special treatment needed

Treatment:

None

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products:

None

Explosive properties: No data available

Oxidizing properties: No data available

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

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7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature:

Store at ambient temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

- OEL Type: JSOH - LTE: 8 mg/m³ - Notes: Class 3 Dusts (Total dust)
- OEL Type: JSOH - LTE: 2 mg/m³ - Notes: Class 3 Dusts (Respirable dust)
- OEL Type: ACGIH - LTE: 10 mg/m³ - Notes: Inhalable particles
- OEL Type: ACGIH - LTE: 3 mg/m³ - Notes: Respirable particles

Iron oxide(Fe₂O₃) - CAS: 1309-37-1

- OEL Type: JSOH - LTE: 1 mg/m³ - Notes: Class 2 Dusts (Respirable dust)
- OEL Type: JSOH - LTE: 4 mg/m³ - Notes: Class 2 Dusts (Total dust)
- OEL Type: ACGIH - LTE: 10 mg/m³ - Notes: Inhalable particles
- OEL Type: ACGIH - LTE: 3 mg/m³ - Notes: Respirable particle
- OEL Type: ACGIH - LTE: 5 mg/m³ - Notes: Respirable fraction

Manganese oxide - CAS: 1344-43-0

- OEL Type: JSOH - LTE: 0.2 mg/m³ - Notes: (as Mn except organic compounds)

Carbon black - CAS: 1333-86-4

- OEL Type: ACGIH - LTE(8h): 3 mg/m³
- OEL Type: OSHA - LTE: 3.5 mg/m³

Titanium dioxide - CAS: 13463-67-7

- OEL Type: ACGIH - LTE(8h): 10 mg/m³
- OEL Type: OSHA - LTE: 15 mg/m³
- OEL Type: JSOH - LTE: 0.3 mg/m³ - Notes: nano particle
- OEL Type: NIOSH - STE: 5000 mg/m³

DNEL Exposure Limit Values

No data available

PNEC Exposure Limit Values

No data available

Appropriate engineering controls:

None

Individual protection measures

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

Not required unless engineering controls are inadequate to control inhalation exposure (refer to the following for ventilation recommendations).

Chemical Controls for Australian Printers

P39 Wide-format inkjet printing with solvent-borne inks:

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Follow Safe Work Australia control guidance sheet, P39 Wide-format inkjet printing with solvent-borne inks. Linked at following website:
<http://www.safeworkaustralia.gov.au/sites/swa/whs-information/hazardous-chemicals/printers/controlguidance/digital/pages/p39wideformatinkjetprintingwithsolventborneinks>

Thermal Hazards:
None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:	Black Powder
Odour:	Slightly
Odour threshold:	No data available
pH:	Not Relevant
Melting point / freezing point:	No data available
Initial boiling point and boiling range:	No data available
Solid/gas flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour density:	No data available
Flash point:	Not Relevant
Evaporation rate:	No data available
Vapour pressure:	No data available
Relative density:	No data available
Solubility in water:	Insoluble
Solubility in oil:	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity:	Not Relevant
Miscibility:	No data available
Fat Solubility:	No data available
Conductivity:	No data available
Substance Groups relevant properties	No data available

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	None
Conditions to avoid	Stable under normal conditions.
Incompatible materials	None in particular.
Hazardous decomposition products	None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Toxicological information of the mixture:	
a) acute toxicity:	Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Notes: based in toxicity data of the ingredients of print
	Test: LD50 - Route: Dermal > 5000 mg/kg - Notes: based in toxicity data of the ingredients of print
b) skin corrosion/irritation:	

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- Test: Skin Irritant - Species: Rabbit Non-irritant
- c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Non-irritant - Notes: based in toxicity data of the ingredients of print
- d) respiratory or skin sensitisation:
Test: Skin Sensitisation - Species: Guinea pig Non-sensitiser
- e) germ cell mutagenicity:
Test: Mutagenesis Negative
- Toxicological information of the main substances found in the mixture:
Carbon black - CAS: 1333-86-4
- a) acute toxicity:
Test: LD50 - Route: Dermal - Species: Rabbit > 3 g/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15
Test: LD50 - Route: Oral - Species: Rat > 15400 mg/kg - Source: Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15
- Carbon black - CAS: 1333-86-4
With excessive exposure, carbon black has been listed as a possible human carcinogen. However, as engineered within this ink cartridge, emissions to air of carbon black during normal printing use have not been found. IARC, the International Agency for Research on Cancer, has found printing inks to be not classifiable as human carcinogens.
- Substance(s) listed on the NTP report on Carcinogens:
None.
- Substance(s) listed on the IARC Monographs:
Iron oxide(Fe₂O₃) - Group 3
Carbon black - Group 2B
Amorphous silica - Group 3
Titanium dioxide - Group 2B.
- Substance(s) listed as OSHA Carcinogen(s):
None.
- Substance(s) listed as NIOSH Carcinogen(s):
Titanium dioxide.

12. ECOLOGICAL INFORMATION

- Ecotoxicity
Adopt good working practices, so that the product is not released into the environment.
- a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish > 500 mg/l - Duration h: 96 - Notes: based in toxicity data of the ingredients of print
Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48 - Notes: based in toxicity data of the ingredients of print
- Persistence and degradability
No data available
- Bioaccumulative potential
No data available
- Mobility in soil
No data available
- Other adverse effects
None

13. DISPOSAL CONSIDERATIONS

- Waste treatment and disposal methods
Recover if possible. In so doing, comply with the local and national regulations currently in force.

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14. TRANSPORT INFORMATION

UN number
Not classified as dangerous in the meaning of transport regulations.

UN proper shipping name
No data available

Transport hazard class(es)
No data available

Packing group
No data available

Environmental hazards
No data available

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)
No data available

Special precautions
No data available

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act
List of substances included in the TSCA inventory: Iron oxide(Fe₂O₃), Manganese oxide, Carbon black, Amorphous silica, Titanium dioxide.
List of substances not included in the TSCA inventory: Styrene / acrylate resin, Polyethylene.
TSCA listed substances:
None.

SARA - Superfund Amendments and Reauthorization Act
Section 302 – Extremely Hazardous Substances: no substances listed.
Section 304 – Hazardous substances: no substances listed.
Section 313 – Toxic chemical list: no substances listed.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
No substances listed.

CAA - Clean Air Act
CAA listed substances:
None.

CWA - Clean Water Act
CWA listed substances:
None.

Australia Information:
Statement of Hazardous Nature:
Not classified as hazardous according to criteria of NOHSC

New Zealand Information:
Hazardous Substances and New Organisms Act 1996:
Not regulated

16. OTHER INFORMATION

Safety Data Sheet dated September 14, 2017, Revision: 1.0

Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of

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	Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).