

Toner Bank

Safety Data Sheet



SAFETY DATA SHEET

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

1.1 Product identifier

DR-820 Drum Unit & TN-850 toner cartridge Product Name:

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

HL-L5000D HL-L5100DN HL-L5200DW HL-L5200DWT HL-L6200DW

HL-L6200DWT HL-L6250DW HL-L6300DW HL-L6400DW HL-

Identified use(s): L6400DWT

MFC-L5700DW MFC-L5800DW MFC-L5850DW MFC-L5900DW MFC-

L6700DW

MFC-L6750DW MFC-L6800DW MFC-L6900DW DCP-L5500DN DCP-L5600DN DCP-L5650DN

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or Not classified as hazardous according to EU Directive

1272/2008/EC. mixture EU Classification:

Australia Classification: Not classified as hazardous according to the criteria of NOHSC.

Label elements according to EU Directive 1272/2008/EC: None 2.2 Label elements

Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Styrene-acrylate Toner (Mixture).

Chemical Name	CAS No.	EC No	%W/W	EU Hazard Symbols	EU Hazard Symbols
Styrene-acrylate Copolymer	Confidential	not applicable	85~90	Not classified	Not classified
Carbon Black	Confidential	not applicable	4~7	Not classified	Not classified
Paraffin Wax	Confidential	not applicable.	2~4	Not classified	Not classified
Fatty Acid Ester	Confidential	not applicable.	2.5~4	Not classified	Not classified
Silicon Dioxide	Confidential	not applicable.	0.5~4.5	Not classified	Not classified

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation: Obtain immediate medical attention. In case of accident by

inhalation remove casualty to fresh air and keep at rest.

Remove contaminated clothing immediately and wash affected Skin Contact:

skin with plenty of water or soap and water.

Obtain medical attention. If substance has got into the eyes, Eye Contact:

immediately wash out with plenty of water for at least 15 minutes.

Obtain medical attention. Wash out mouth with water and give Ingestion:

200-300 ml (half a pint) of water to drink.

4.2 Most important symptoms and

effects, both acute and delayed

If symptoms persist, obtain medical attention.

4.3 Indication of any immediate medical

attention and special treatment needed

Treat symptomatically.



SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media: Extinguish preferably with dry chemical, Carbon dioxide, Water

spray, Foam.

Unsuitable Extinguishing Media: Do not use water jet.

5.2 Special hazards arising from the

substance or mixture

May form explosible dust clouds in air.

5.3 Advice for fire-fighters 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 selfcontained 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective Avoid generation of dust. Do not breathe dust.

equipment and emergency A suitable dust mask or dust respirator with filter type A/P may be procedures

appropriate.

Environmental precautions 6.2 Prevent substance entering sewers. Washings must be prevented

from entering surface water drains.

Methods and material for 6.3 Sweep the spilt toner or remove it with a vacuum cleaner and containment and cleaning up

transfer into a sealed container carefully. Sweep slowly to minimize generation of dust during clean-up. 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.

DISPOSAL CONSIDERATIONS - See Section: 13.

Reference to other sections See Section: 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Keep out of the reach of children. Avoid dust generation. Avoid

inhalation of high concentrations of dust. Avoid contact with eyes.

7.2 Conditions for safe storage, including Keep out of the reach of children. Keep away from oxidizing

any incompatibilities

Specific end use(s)

7.3

agents.

These products are black toner in a cartridge for Brother laser

printers, multifunction devices and fax receivers.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits:

Substance	CAS No.	OSHA PEL	ACGIH TLV	EU IOELV
Carbon Black	Confidential	3.5 mg/m3TWA	3 mg/m3TWA	None.
Paraffin Wax	8002-74-2	None.	2 mg/m3 TWA	None.
Silicon Dioxide (amorphous)	84491-94-7	20mppcf 80 (mg/m3)/% SiO2	None.	None.
Silicon Dioxide (amorphous)	I 112945-52-5 I		None.	None.

Additional Information: USA OSHA PEL (TWA): 15 mg/m3 (Total Dust) 5mg/m3

(Respirable Fraction).

ACGIH TLV (TWA): 10 mg/m3 (Inhalable particles) 3 mg/m3

(Respirable particles).

8.2 Exposure controls Not normally required.

Appropriate engineering controls Good general ventilation should be sufficient under normal use.

Personal Protection 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 Goggles.

Skin protection Protective gloves.

Other: Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical propertiesAppearance (20 0C): Solid, Powder.

Color: Black Odor: Odorless. Boiling point/boiling range (℃): Not applicable. Melting point ($^{\circ}$) / Freezing point ($^{\circ}$): No data. Vapor pressure (Pascal): Not applicable. pH (Value): Not applicable. Viscosity (mPa. s): Not applicable. Not applicable. Flash point ($^{\circ}$ C): Explosive limit ranges: No data.

Explosive properties: May form explosible dust clouds in air.

Specific Gravity:

Vapor density (Air=1):

Partition coefficient (n-Octanol/water):

Relative Evaporation Rate (Butyl Acetate = 1):

Oxidising properties:

Solubility (Water):

Solubility (Other):

No data.

Negligible.

No data.

9.2 Other information None.



SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity None anticipated.

10.2 Chemical stability10.3 Possibility of hazardous reactionsNone.

10.4 Conditions to avoid Keep at temperature not exceeding: 200°C. Avoid friction, sparks,

or other means of ignition.

10.5 Incompatible materials Strong oxidising agents.

10.6 Hazardous Decomposition

Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11 Information on toxicological effects

Acute toxicity:

Product(s)

Ingestion: Acute LD50 > 2000mg/kg (Method: OECD#420)

Inhalation: Acute LC50 > 3.4mg/l (The highest technically achievable

concentration) (Method: OECD#436)

Skin Contact: No data.

Eye Contact: No data.

Skin corrosion/irritation: Non-irritant. (Method: OECD#404)

Serious eye damage/irritation: Slight irritant to the eye. (Method: OECD#405)

Respiratory or skin sensitization: It is not a skin sensitizer. (Method: OECD#429)

Mutagenicity: Negative. (Method: OECD#471 / Ames test)

Carcinogenicity:

Carbon Black:

In 1996, the IARC reevaluated 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.

Reproductive toxicity: No data.

STOT-single exposure: No data.

STOT-repeated exposure: No data.

Aspiration hazard: No data.

Potential Health Effects from Routes of exposure:

overexposure: Skin Contact, Eye Contact, Inhalation (Dust).

Minimal respiratory tract irritation may occur as with large amounts of any non-toxic dust. Thermal decomposition will evolve toxic and

irritant vapors.

Combustion products: See Section: 10.

Potential Health Effects: Routes of exposure:

Skin Contact, Eye Contact, Inhalation (Dust).



Inhalation (Dust). For large quantities:

May cause irritation to the respiratory system. Effects and Symptoms -Increased difficulty in breathing. Sneezing. Coughing. Use this product as intended in order to prevent the dust leakage that leads to exposure.

Skin Contact:

No specific effects and/or symptoms have been reported or No specific effects and/or symptoms have been reported or known.

Eye Contact:

May cause eye irritation. Use this product as intended in order to prevent the dust leakage that leads to exposure.

Ingestion:

May cause stomach ache. Unlikely route of exposure.

SECTION 12: ECOLOGICAL INFORMATION

No data available on the adverse effects of this product on the environment.

12.1 Toxicity
12.2 Persistence and degradability
12.3 Bioaccumulative potential
12.4 Mobility in soil
12.5 Results of PBT and vPvB assessment
12.6 Other adverse effects
No data.
No data.

SECTION 13: DISPOSAL CONSIDERATIONS

13 Waste treatment methods

Do not put toner or toner cartridges into a fire, this can cause fire to spread with the risk of causing burn injuries. Shred toner cartridges in a dust/explosion controlled environment. Finely dispersed particles may form explosive mixtures in the air. Dispose of in compliance with Federal, State and local regulations

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

14.1UN numberNone.14.2Proper Shipping NameNone.14.3Transport hazard class(es)None.14.4Packing GroupNone.14.5Environmental hazardsNone.14.6Special precautions for userNone.

14.7 Transport in bulk according to Annex II Not applicable.

of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for

EU: Not classified as dangerous for supply/use. (1272/2008/EC) Hazard Symbol, Risk Phrases,



the substance or mixture Safety Phrases: None assigned.

> USA: All chemicals in this product comply with TSCA rules and regulations including TSCA Section 5 (Inventory Rules).

WHMIS: Not applicable. (Manufactured article)

15.2 Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Hazard Symbol: None Risk Phrases: None.

The following sections contain revisions

or new statements: Additional information: All Sections.

No.

The information relates only to this product. It may not be valid, if used in combination with any other materials or in any other process, and it is based on our b est knowledge as of the date of

preparation (revision).

References: U.S. 29CFR Part 1910

ACGIH Threshold Limit Values for Chemical Substances and

Physical Agents and Biological Exposure Indices

EU Directive 91/322/EEC and 20 00/39/EC

IARC Monographs on the Evaluation Carcinogenic Risks to

Humans World Health Organization NTP 11th Report on Carcinogen s

ACGIH: American Conference of Governmental Industrial Abbreviations:

ADR: European Agreement concerning the International carriage

of Dangerous goods by Road (EU)

DOT: Department Of Transportation (US)

EINECS: European Inventory of Existing Commercial Chemical Substances HCS: Hazard Communication Standard (US)

IARC: International Agency for Research on Cancer IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods IOELV: Indicative Occupational Exposure Limit Value

NOHSC: National Occupational Health and Safety

Commission

(Australia)NTP: National Toxicology Program (US)

OSHA: Occupational Safety and Health Administration (US) PEL:

Permissible Exposure Limit

RID: Regulations concerning the International carriage of goods by

Rail (EU) TLV: Threshold Limit Value (ACGIH)

TSCA: Toxic Substances Control Act (US)

WHMIS: Workplace Hazardous Material Information System

(Canada)

