

MATERIAL SAFETY DATA SHEET

Date: Issued 8 December, 2015
Version Number: 1

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

- 1.1 Product identifier:
Product Name: GSTN450-NC
fuzion™ compatible black toner cartridge for
Brother® monochrome printer applications
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified use(s):
A black toner cartridge that is used in
Brother® HL2132, HL2220, HL2230, HL2240,
HL2240D, HL2242, HL2242D, HL2250,
HL2250D, HL2270, HL2270W, HL2270DW,
HL2275DW, HL2280, HL2280DW, MFC7240,
MFC7260, MFC7360N, MFC7460,
MFC7460DN, MFC7860, MFC7860DW,
DCP7060, DCP7060D, DCP7065, DCP7065DN,
Intellifax 2840, Intellifax 2940 printers

The cartridge should be used as supplied by
Genuine Supply Source Inc. and for use in the
products stated. Information provided on this
SDS is only consistent with the use specified by
Genuine Supply Source Inc.
- 1.3 Contact Details of the Supplier
Genuine Supply Source Inc.
3450 Ridgeway Drive – Unit #4
Mississauga, Ontario Canada L5L0A2
Telephone: 877-477-5525
Email: info@genuinesupply.ca
- 1.4 Emergency telephone number
Emergency Phone No. (24 hours) CHEMTREC
US: Tel (562) 404-9315

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or
Australia Classification: Not classified as hazardous according to the
criteria of NOHSC.
- 2.2 Label elements
Label elements according to EU Directive
1999/45/EC
- 2.3 Other hazards
None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures Styrene-acrylate Toner (Mixture)

Chemical Name	CAS No	EC No	%W/W	EU Hazard Symbols
Styrene-acrylate Copolymer	Confidential	Not Applicable	<90	Not Classified
Wax	Confidential	Not Applicable	<15	Not Classified
Carbon Black	Confidential	Not Applicable	<7	Not Classified
Amorphous Silica	Confidential	Not Applicable	<2	Not Classified
Fatty Acid Ester	Confidential	Not Applicable	<7	Not Classified

SECTION 4: FIRST AID MEASURES

4.1 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.
Skin Contact:	Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water.
Eye Contact:	Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.
Ingestion:	Obtain medical attention. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink.

4.2 Most important symptoms and affects, 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

5.1 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 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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| 6.1 | Personal precautions, protective equipment and emergency | Avoid generation of dust. Do not breathe dust. A suitable dust mask or dust respirator with filter type A/P procedures may be appropriate. |
| 6.2 | Environmental precautions | Prevent substance entering sewers. Washings must be prevented from entering surface water drains. |
| 6.3 | Methods and material 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 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 |
| 6.4 | Reference to other sections | See Section: 8 |

SECTION 7: HANDLING AND STORAGE

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| 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 any incompatibilities agents. | Keep out of the reach of children.
Keep away from oxidizing |
| 7.3 | Specific end use(s) | Toner in a cartridge for HP laser printers, multifunction devices and fax receivers. The cartridge should be used as supplied by GSS and for use in the products stated. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits:

Substance	CAS No.	OSHA PEL	ACGIH TLV	EU IOELV
Carbon Black	1333-86-4	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA	None
Parafin Wax	8002-74-2	None	2 mg/m ³ TWA	None
Silicon Dioxide (Amorphous)	84491-94-7	20Mppcf 80 (mgm ³)/% SiO ₂	None	None
Silicon Dioxide (Amorphous)	112945-52-5	20Mppcf 80 (mgm ³)/% SiO ₂	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
Appropriate engineering controls

Not normally required.
Good general ventilation should be sufficient under normal use

Personal Protection use.

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
Skin protection
Respiratory protection
Other:

Goggles
Protective gloves
Dust mask (Large spillages: Respirator)
Not applicable

Environmental Exposure Controls

Avoid release to the environment

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (20 °C):	Solid, Powder
Color:	Black
Odor:	Odorless
Boiling point/boiling range (°C):	Not applicable
Melting point (°C) / Freezing point (°C):	No data
Vapor pressure (Pascal):	Not applicable
pH (Value):	Not applicable
Viscosity (mPa. s):	Not applicable
Flash point (°C):	Not applicable
Explosive limit ranges:	No data
Explosive properties:	May form explosible dust clouds in air.
Specific Gravity:	No data
Vapor density (Air=1):	Not applicable
Partition coefficient (n-Octanol/water):	No data
Relative Evaporation Rate (Butyl Acetate = 1):	Not applicable
Oxidising properties:	No data
Solubility (Water):	Negligible
Solubility (Other):	No data

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	None anticipated.
10.2	Chemical stability	Stable
10.3	Possibility of hazardous reactions	None
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 Product(s) oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Acute toxicity:	
	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. <i>Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA.</i>
	Reproductive toxicity:	No data
	STOT-single exposure:	No data
	STOT-repeated exposure:	No data
	Aspiration hazard:	No data
	Potential Health Effects from overexposure:	Routes of exposure: Skin Contact, Eye Contact, Inhalation (Dust)

Potential Health Effects

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.

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

SECTION 13: DISPOSAL CONSIDERATIONS

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'.

14.1	UN number	None
14.2	Proper Shipping Name	None
14.3	Transport hazard class(es)	None
14.4	Packing Group	None

14.5	Environmental hazards	None
14.6	Special precautions for user	None
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental legislation	Not classified as dangerous for supply/use. regulations/legislation specific for (1999/45/EC, 67/548/EEC) Hazard Symbol, Risk Phrases, 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	No

SECTION 16: OTHER INFORMATION

Hazard Symbol:	None
Risk Phrases:	None

The following sections contain revisions or new statements:

Additional information:

All Sections.
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 best 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 2000/39/EC IARC Monographs on the Evaluation Carcinogenic Risks to Humans World Health Organization

NTP 11th Report on Carcinogens

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists
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)