

COSHH RISK ASSESSMENT FORM

 Printer – Brother HL- HL-5100DN – Marksbury Road 						
Product Name	Brother printer and associated spares		Risk Assessment Number	126		
Manufacturer	Brother		Product Code			
Manufacturer Contact Number	Emergency telephone number Contact – CHEMTREC +1-703-527-3887 International		Manufacturer's CAS Ref. (on Safety Data Sheet)	CAS 1333-86-4 CAS 9011-14-7 CAS 112945-52-5 CAS 557-05-1		
Manufacturer Safety Data Sheet (MSDS)	Yes		Date of MSDS	01/06/2023		
Hazard Classifications <i>(Tick as appropriate)</i> This is classified as not hazardous according to regulation EC 1272/2008 GHS	☐	 Explosive	☐	 Corrosive	☐	 Acute toxicity
	☐	 Flammable	☒	 Hazardous to the environment	☐	 Health hazard/Irritant/Hazardous to the ozone layer
	☐	 Oxidising	☐	 Serious health hazard	☐	 Gas under pressure
	This is classified as not hazardous according to regulation EC 1272/2008 GHS					
Are Any Hazardous Substances Produced by any Processes?	NO					
Who might it effect? 	This is classified as not hazardous according to regulation EC 1272/2008 GHS					
Controls in Place	☐	Total enclosure of the process	☐	Partial enclosure of the process	☒	General workplace ventilation
	☐	Wet methods (to control dust)	☐	Respiratory Protection	☐	Eye Protection
	☒	Gloves	☐	Overalls	☐	Other

Precautions & Personal Protection 	Good Ventilation, Gloves, Apron		
Emergency First Aid 	Swallowed: Obtain immediate medical attention. Wash out mouth with water and give 100-200ml of water to drink		In contact with eyes: Flush eyes with plenty of water for at least 15 minutes, lifting lower and upper lids, consult a physician
	Contact with Skin: Wash with soap and water as a precaution	Inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing Get immediate medical advice/attention	
Action in case of Emergency 	This product will not be a hazard as we do not store the product in his powder form		
Environmental Implications 	Contains 0% of components with unknown hazards to the aquatic environment		
Storage, Disposal & Transport 	Storage A small supply <1kg is stored in xxxxxxxxxxxx	Disposal Dispose of waste in the container provided and return to the facilities team for recycling	Transport Single use units are provided as needed via the facilities team
Overall Assessment of Risk of Current Use of the Substance 	☒ Low A low-risk score means the substance poses minimal danger under normal working conditions and when proper controls (e.g., PPE, ventilation) are in place. Routine monitoring is sufficient, and there is no immediate concern for harm.	☐ Medium A medium-risk score indicates a moderate chance of harm. This suggests that additional precautions or stricter controls may be required to prevent exposure, such as improving handling procedures or enhancing protective measures.	☐ High A high-risk score means there is a significant likelihood of harm, either due to the nature of the substance or insufficient controls. Immediate action is required to eliminate or reduce exposure to an acceptable level, such as substituting the substance, upgrading safety measures, or improving training and supervision.
Improvements Required	Are the current controls effective?		Yes
	Does the MSDS suggest any controls that we don't have in place?		No
	Is air monitoring considered appropriate?		No
	Can the process be re-engineered?		No

	Have we considered the use of an alternative, less dangerous substance?		Yes
Assessment Completed by	Name: Stuart Burgess	Role: Team Manager	Date:01/03//2025 Review date 01/03/2026

SAFETY DATA SHEET

brother:

Product Name TN-1700 Toner

Version Number: 3 SOS No.: TN-1700-01-EUUSOTHER

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: TN-1700 Toner

Use: This product is black toner in a cartridge for Brother Industries, Ltd. laser printers, multifunction devices and fax receivers.

The cartridge should be used as supplied by Brother and for use in the products stated. Information provided on this SOS is only consistent with the use specified by Brother.

Manufacturer:

Brother Industries, Ltd.

15-1 Naeshiro-cho, Mizuho-ku,

Nagoya 467-8561, Japan

Telephone (for information): +81-52-824-2735

Importer USA:

Brother International Corporation

P.O. Box 6911, 100 Somerset Corporate Boulevard, Bridgewater, NJ 08807- 0911, USA

Telephone (for information): +1-800-284-4329

Importer Canada:

Brother International Corporation (Canada) Ltd.

1 Hotel de Ville, Dollard des Ormeaux, Quebec, H9B 3H6, Canada Telephone (for information): +1-514-685-0600

Importer Europe:

Brother International Europe Ltd.

Brother House, 1 Tame Street, Guide Bridge, Audenshaw, Manchester M34 5JE,

UK

Telephone (for information): +44-161-330-6531

Importer Australia:

Brother International (Aust.) Pty. Ltd. ACN 001 393 835

Level 3, Building A, 11 Talavera Road, Macquarie Park, NSW 2113, Australia Telephone (for information): +61-2-9887-4344

Emergency Phone No.: CHEMTREC
+1-703-527-3887 (International)
+1-800-424-9300 (North America)

For France only:
Anti - poison Center telephone number: ORFILA +33-1-45-425-959

E-mail address for information:

sds.info@brother.co.jp

2-: HAZARDS-IDENTIFICATION

Potential health effects from overexposure:

Routes of exposure: 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:

Special Hazards:

EU Classification: Australia Classification:

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 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. May form explosible dust clouds in air.
Not classified as hazardous according to EU Directive 1999/45/EC. Not classified as hazardous according to the criteria of NOHSC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Polyester Toner (Mixture).

Chemical Name	CAS No.	EC No.	%W/W	EU Hazard Symbols	EU Risk Phrases
Polvester	Confidential	Not applicable.	40 - 50	Not classified.	Not classified.
MaQnetite	1317-61-9	215-277-5	40- 50	Not classified.	Not classified.
Silicon Dioxide (amorphous)	7631-86-9	231-545-4	1 - 10	Not classified.	Not classified.

Polypropylene wax	Confidential	Not applicable.	1 - 10	Not classified.	Not classified.
Styrene / acrylate resin and olefin resin	Confidential	Not applicable.	1 - 10	Not classified.	Not classified.

4. FIRST AID MEASURES

General: If symptoms persist, obtain medical attention.

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 immediate medical attention. Wash out mouth with water and give 200- 300 ml (half a pint) of water to drink.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Unsuitable Extinguishing Media:

Extinguish preferably with dry chemical, Water spray, Foam. Do not use water jet.

at your side

Special firefighting procedures:

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.

Unusual fire and explosion hazards:

May form explosible dust clouds in air. Combustion products: See Section: 10.

Explosion limits: No data.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection:

Avoid generation of dust. Do not breathe dust.

A suitable dust mask or dust respirator with filter type NP may be appropriate.

Environmental Precautions:

Prevent substance entering sewers. Washings must be prevented from entering surface water drains.

Methods for Cleaning Up:

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.

7. HANDLING AND STORAGE

Handling: Keep out of the reach of children. Avoid dust generation. Avoid inhalation of high concentrations of dust. Avoid contact with eyes.

Storage: Keep out of the reach of children. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

SUBSTANCE	CAS No.	OSHA PEL	ACGIH TLV	EU IOELV
-----------	---------	----------	-----------	----------

Silicon Dioxide (amorphous)	7631-86-9	20mppcf	None.	None.
-----------------------------	-----------	---------	-------	-------

80(mg/m³)/³/₄SiO₂

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).

Environmental Exposure Controls: Not normally required.

Ventilation: 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: Goggles. Skin: Protective gloves.

Respirators: Dust mask. (Large spillages: Respirator).

9. PHYSICAL AND CHEMICAL PROPERTIES

pH {Value}: Not applicable.

Form: Powder.

Color: Black.

Odor: Slight plastic odor.

Boiling Point {°C}: Not applicable.

Melting Point {"C}: No data.

Vapor Pressure {Pascal}: Not applicable.

Specific Gravity: 1.7

Viscosity {mPa.s}: Not applicable.

Flash Point {"C}: Not applicable.

Explosive Properties: May form explosible dust clouds in air. Non-flammable.

Flammable Powder Class: Non-Flammable.

Vapor Density {Air:1}: Not applicable.

Partition Coefficient {n-Octanol/water}: No data.

Relative Evaporation Rate {Butyl Acetate=1}: Not applicable.

Oxidizing Properties: Solubility {Water}: Solubility {Other}: No data.

Solubility (Water): Negligible

Solubility (Other): No data

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

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

Materials to avoid: Strong oxidizing agents.

Hazardous Decomposition Product(s): Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Ingestion: Acute LD₅₀ > 5000mg/kg ('1

Inhalation: No data.

Skin Contact: Non-corrosive/ Non-irritant. (1I LD₅₀ > 5000mg/kg dermal (II

Eye Contact: Non-irritant. (II

Mutagenicity: Negative. (Ames test)

Skin sensitization: It is not a skin sensitizer. (1I (GPMT)

(1) This assessment is based on information available on similar products.

Ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA.

12. ECOLOGICAL INFORMATION

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

Toxicity: ACUTE TOXICITY Fish: 96hr LC₅₀ (Oryzias latipes) >500mg/l Daphnia: 48hr EC₅₀ (Daphnia magna) >100mg/l

Algae: 72hr IC₅₀ (Selenastrum capricornutum) >100mg/l No data.

Environmental Fate and Distribution: No data.

Persistence and Degradation: No data.

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

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

UN No.: None.

Class: None.

Not regulated under DOT, IMDG, ADR, RID, IATA.

15. REGULATORY INFORMATION

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

EU: Not classified as dangerous for supply/use. (1999/45/EC, 67/548/EEC) Hazard Symbol, Risk Phrases, Safety Phrases: None assigned.

Canada: WHMIS: Not applicable. (Manufactured article)

16. OTHER INFORMATION

The following sections contain revisions or new statements: All sections.

Additional Information: 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).

Reference: 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 of the 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)