

## MATERIAL SAFETY DATA SHEET

TONER POWDER FOR USE IN BROTHER TN-2120 COMPATIBLE CARTRIDGE

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

PRODUCT NAME	TONER POWDER FOR USE IN BROTHER TN-2120 COMPATIBLE CARTRIDGE
SYNONYMS, TRADE NAMES	TN-2110, TN-2120, HL-2140
APPLICATION	Toners suitable for laser printers and photocopiers
SUPPLIER	PBT International Ltd Haydon Wells Somerset, BA5 3EF United Kingdom
EMERGENCY TELEPHONE	+44 (0)1749 685685
E mail	sales@pbtigroup.com

### 2. HAZARDS IDENTIFICATION

Not regarded as a health or environmental hazard under current legislation.

#### ENVIRONMENT

The product is not expected to be hazardous to the environment.

#### PHYSICAL AND CHEMICAL HAZARDS

High concentrations of dust may form explosive mixture with air.

#### HUMAN HEALTH

Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### HAZARDOUS SUBSTANCES PRESENT ON THEIR OWN:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)  
This preparation contains no hazardous substance in this category.

#### OTHER SUBSTANCES REPRESENTING A HAZARD:

No known substance in this category present.

#### SUBSTANCES PRESENT AT A CONCENTRATION BELOW THE MINIMUM DANGER THRESHOLD:

No known substance in this category present.

#### OTHER SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMITS:

No known substance in this category present.

### 4. FIRST-AID MEASURES

#### GENERAL INFORMATION

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

#### INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. 4 /2

#### INGESTION

Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues.

#### SKIN CONTACT

Remove affected person from source of contamination. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

#### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### 5. FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

#### UNUSUAL FIRE & EXPLOSION HAZARDS

Dust may form explosive mixture with air. Fire causes formation of toxic gases.

#### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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### 6. ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

Avoid inhalation of dust. Wear protective clothing as described in Section 8 of this safety data sheet.

#### ENVIRONMENTAL PRECAUTIONS

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container  
Avoid spreading dust or contaminated materials.

#### SPILL CLEAN UP METHODS

Avoid generation and spreading of dust. Shovel into dry containers. Cover and move the containers. Flush the area with water. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

### 7. HANDLING AND STORAGE

#### USAGE PRECAUTIONS

Use mechanical ventilation in case of handling, which causes formation of dust.

#### STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place. Keep in original container.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### INGREDIENT COMMENTS

WEL =Workplace Exposure Limits

#### PROTECTIVE EQUIPMENT



#### PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level.

#### RESPIRATORY EQUIPMENT

No specific recommendation made, but protection against nuisance dust must be used when the general level exceeds 10 mg/m<sup>3</sup>. Wear respirator if there is dust formation. Dust filter P2 (for fine dust).

#### HAND PROTECTION

Use protective gloves.

#### EYE PROTECTION

Wear dust resistant safety goggles where there is danger of eye contact.4 /3

#### OTHER PROTECTION

Use engineering controls to reduce air contamination to permissible exposure level. Wear dust masks in dusty areas. Wear appropriate clothing to prevent reasonably probable skin contact.

#### HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Powder, dust
COLOUR	Black
ODOUR	Almost odourless
SOLUBILITY	Insoluble in water
MELTING POINT (°C)	approximately >80 °C
BULK DENSITY	800 kg/m <sup>3</sup>
PARTICLE SIZE	(Micron) 2-20

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### 10. STABILITY AND REACTIVITY

#### STABILITY

No particular stability concerns.

#### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid dust close to ignition sources.

#### HAZARDOUS POLYMERISATION

Will not polymerise.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Toxic gases/vapours/fumes of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). PAH (polycyclic aromatic hydrocarbons).

### 11. TOXICOLOGICAL INFORMATION

#### TOXICOLOGICAL INFORMATION

Toners are formulated on Ames negative raw materials and have been independently certified Ames negative.

EEC Annex to Directive 92/69/EEC (1992) Part B Methods for Determination of Toxicity, B13 Other effects- Mutagenicity: Escherichia coli-reverse mutation assay

#### INHALATION

High concentrations of dust may irritate throat and respiratory system and cause coughing.

#### INGESTION

No harmful effects expected in amounts likely to be ingested by accident.

#### SKIN CONTACT

Powder may irritate skin.

#### EYE CONTACT

May cause temporary eye irritation.

#### HEALTH WARNINGS

Dust may irritate respiratory system. This chemical may cause skin/eye irritation.

### 12. ECOLOGICAL INFORMATION

#### ECOTOXICITY

The product is not expected to be hazardous to the environment.

### 13. DISPOSAL CONSIDERATIONS

#### GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

#### DISPOSAL METHODS

Powder to be collected, sealed tightly in bags and disposed on approved landfills. Dispose of waste and residues in accordance with local authority requirements.

European Waste Class (EWC) 08 03 18

### 14. TRANSPORT INFORMATION

GENERAL the product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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### 15. REGULATORY INFORMATION

RISK PHRASES  
NC

Not classified.

SAFETY PHRASES  
P13

Safety data sheet available for professional user on request.

EU DIRECTIVES

Safety Data Sheet according to 91/155/EC as amended Dangerous Preparations Directive 1999/45/EEC. System of specific information relating to Dangerous Preparations. 2001/58/EEC.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40.CHIP for everyone HSG (108).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.No.1689.

Workplace Exposure Limits 2005 (EH40)

Control of Substances Hazardous to Health Regulations 2002 (as amended)

### 16. OTHER INFORMATION

ISSUED BY

Technical Department

REVISION DATE

19/01/2009

REV.NO. /REPL.

Rev 4

SAFETY DATA SHEET STATUS

Approved

SIGNATURE

BA

RISK PHRASES IN FULL

NC

Not classified

R20

Harmful by inhalation

R51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.