

1. IDENTIFICATION OF THE SUBSTANCE PREPARATION AND COMPANY UNDERTAKING**1.1 PRODUCT IDENTIFIER**

Product name: Black Toner Cartridge for Brother TN221
Part number: 24424553

1.2 IDENTIFIED USES AND USES ADVISED AGAINST

For use in: This mixture is a toner used in copiers/printers.

1.3 SUPPLIER DETAILS

Supplier: Clover Technologies Group
4200 Columbus Street.
Ottawa, IL 61350
United States
Phone number: 815-431-8100
Fax: 815-461-8583
Contact Hours: 08:00AM-05:00PM CST

1.4 EMERGENCY TELEPHONE NUMBERS

Supplier: N/A

* This document provides safety-related information about toner contained in print cartridge for use in laser printer

2. HAZARDS IDENTIFICATION**2.1 INFORMATION and CLASSIFICATION**

Overview: The product is classified and labeled according to the Globally Harmonized System (GHS).

2.2 LABEL ELEMENTS

Applicable Pictograms:



Danger Indications: Warning - Combustible Dust - May form combustible dust concentrations in air. Vacuum or sweep the material into a sealed container. If a vacuum is used it must be dust explosion-proof. Dispose of in compliance with national, state, regional or provincial regulations. Store in cool, dry place in tightly closed receptacles. Keep away from heat and direct sunlight. Use only in well ventilated areas. Keep ignition sources away - Do not smoke. Do not store together with oxidizing and acidic materials as well as heavy-metal compounds. Protect from humidity and water.

Risk Phrases: N/A

Safety Phrases: Signal Word: Warning

2.3 OTHER HAZARDS

PBT or vPvB: N/A

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
Carbon black (bound)	1333-86-4	2.5-10			
Styrene-Acrylate Copolymer	26655-10-7	50-100			
Styrene Acrylic Resin		2.5-10			
Polypropylene	9003-07-0	2.5-10			
Fumed Silica	844491-94-7	2.5-10			Amorphous Silica: USA OSHA (TWA/PEL): 20 mppcf 80 mg/m3, ACGIH (TWA/TLV): 10 mg/m3.
			TWA: 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction)	TWA: 10 mg/m3 (Inhalable Particulate), 3 mg/m3 (Respirable Particulate)	TRGS 900 (Luftgrenzwert): 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion). UK WEL: 10 mg/m3 (Respirable Dust), 5 mg/m3 (Inhalable Dust).

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

The Data Shown is in accordance with the latest Directives.

This section provides composition information for the toner powder contained in specially designed container inside of the print cartridge.

4. FIRST-AID MEASURES

4.1 FIRST AID MEASURES

4.1.1 FIRST AID INSTRUCTIONS BY RELEVANT ROUTES OF EXPOSURE

- Inhalation: Supply fresh air; consult doctor in case of complaints.
- Eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- Skin contact: Immediately wash with water and soap and rinse thoroughly. Generally the product does not irritate the skin.
- Ingestion: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

4.1.2 ADDITIONAL FIRST AID INFORMATION

- Additional first aid information: N/A
- Immediate Medical Attention Required: No further relevant information available.

4.2 SYMPTOMS AND EFFECTS

- Acute Symptoms from Exposure: No further relevant information available.
- Delayed Symptoms from Exposure: No further relevant information available.

4.3 IMMEDIATE SPECIAL TREATMENT OR EQUIPMENT REQUIRED

No further relevant information available.

5. FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Recommended Extinguishing Media: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Extinguishing Media Not to be Used: None known.

5.2 SPECIAL HAZARD

Unusual Fire/Explosion Hazards: Like most finely divided organic powders, toner dust may form an explosive mixture in air.
Extinguishing Media Not to be Used: N/A

5.3 ADVICE FOR FIRE FIGHTERS

Avoid inhalation of smoke. Wear protective clothing and wear self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1.1 PRECAUTIONS FOR NON-EMERGENCY PERSONNEL

Wear protective equipment. Keep unprotected persons away. Wear self-contained respiratory protective device.

6.1.2 ADDITIONAL FIRST AID INFORMATION

Do not allow to enter sewers/ surface or ground water.

6.1.3 PERSONAL PROTECTION

Wear personal protective equipment as described in Section 8.

6.2 ENVIRONMENTAL PRECAUTIONS

Regulatory Information: Keep product out of sewers and watercourses.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP

Spill or Leak Cleanup Procedures: Vacuum or sweep the material into a sealed container. If a vacuum is used it must be dust explosion-proof. Dispose of in compliance with national, state, regional or provincial regulations.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Recommendations for Handling: No special precautions when used as intended. Keep containers closed, avoid creating dust. Keep away from ignition sources.

Advice on General Hygiene: Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or applying cosmetics.

7.2 CONDITIONS FOR SAFE STORAGE

Avoid high temperatures, >100°F/32°C

7.3 SPECIFIC END USES

Printing devices

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release in order to maintain airborne concentrations of the product below OSHA PELs (See Section 3). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

8.2 EXPOSURE CONTROLS

Respiratory protection:

IMPROPER USE OF RESPIRATORS IS DANGEROUS. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134 and 1910.137) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given work conditions, levels of airborne contamination, and sufficient levels of oxygen.

Eye/Face Protection:

Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Hand/Skin Protection:

For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. WARNING! Air purifying respirators do not protect worker in oxygen deficient atmospheres.

Additional Protection:

N/A

Protective Clothing and Equipment:

Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear splash-proof chemical goggles and face shield when working with liquid, unless full face piece respiratory protection is worn.

Safety Stations:

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment:

Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment. Never take home contaminated clothing.

Comments:

Never eat, drink or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the restroom, or applying cosmetics.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 DETAIL INFORMATION**

Physical state:	APPEARANCE: Form: Powder, Color: Black
Color:	Black
Odor:	Odorless
Odor threshold:	Undetermined.
Boiling point:	Undetermined.
Melting point:	Undetermined.
Flash point:	Not Applicable.
Explosion limits:	Undetermined.
Relative density:	Undetermined.
Auto-ignition temperature:	Product is not self-igniting.

9.2 OTHER INFORMATION

DANGER OF EXPLOSION: Product does not present an explosion hazard in its original state. DENSITY: SG: 1.3-1.8. SOLUBILITY IN/MISCIBILITY WITH WATER: Insoluble. SOLVENT CONTENT: Organic solvents 0.0%; Solids content: 100.0%.

10. CHEMICAL STABILITY AND REACTIVITY**10.1 Reactivity:**

Reactivity Hazards:	None
Data on Mixture Substances:	None

10.2 Chemical Stability:	The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.
10.3 Hazardous Polymerization:	Stable under conditions of normal use.
10.4 Conditions to Avoid:	Keep away from heat, flame, sparks and other ignition sources.
10.5 Incompatible Materials:	Strong oxidising materials
10.6 Hazardous Decomposition:	Will not occur.

11. INFORMATION ON TOXICOLOGICAL EFFECT

Mixtures:	Resin mixture
Acute Toxicity:	N/A
Skin Corrosion/Irritation:	No toxic irritating effect, according to Directive 67/548/EEC or Directive 199/45/EC.
Serious Eye Damage:	No toxic irritating effect, according to Directive 67/548/EEC or Directive 199/45/EC.
Inhalation:	N/A
Sensitization:	No toxic sensitizing effects known, according to EU Directive 67/548/EEC or Directive 199/45/EC.
Mutagenicity:	Ames test Negative (According to the test result of similar composition.)
Carcinogenicity:	IARC (International Agency for Research on Cancer): 9003-07-0, Polypropylene, 3. NTP (National Toxicology Program): None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.
Reproductive Toxicity:	N/A
STOT - Single Exposure:	N/A
STOT - Multiple Exposure:	N/A
Ingestion:	N/A
Hazard Class Information:	N/A
Mixture on Market Data:	N/A
Symptoms:	N/A
Delayed/Immediate Effects:	N/A
Test Data on Mixture:	N/A
Not Meeting Classification:	N/A
Routes of Exposure:	N/A
Interactive Effects:	N/A
Absence of Specific Data:	N/A
Mixture vs Substance Data:	N/A

12. ECOLOGICAL INFORMATION

12.1 Eco toxicity:	Aquatic toxicity: No further relevant information available.
12.2 Degradability:	No further relevant information available.
12.3 Bioaccumulation Potential:	No further relevant information available.
12.4 Mobility in Soil:	No further relevant information available.
12.5 PBT & vPvB Assessment:	N/A
12.6 Other Adverse Effects:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS**Disposal Information:**

Dispose as a solid waste in accordance with local authority regulations.
Empty container retains product residue.

Physical/Chemical Properties that affect Treatment:

Symbol: This product is not classified as dangerous

Risk Phrases: This product is not classified according to the federal, state and local environmental regulations.

Waste Treatment Information:

Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

Personal Protection Required:

N/A

14. TRANSPORT INFORMATION

- 14.1 **ID Number:** None. Not a regulated material under the United States DOT, IMDG, ADR, RID, or ICAO/IATA.
- 14.2 **Shipping Name:** None. Not a regulated material under the United States DOT, IMDG, ADR, RID, or ICAO/IATA
- 14.3 **Hazard Class:** HMIS Rating: Health = 1 Fire = 1 Reactivity = 0
- 14.4 **Packing Group:** Not a regulated material under the United States DOT, IMDG, ADR, RID, or ICAO/IATA.
- 14.5 **Environmental Hazards:** N/A
- 14.6 **User Precautions:** N/A
- 14.7 **Bulk Transport:** N/A

15. REGULATORY INFORMATION

- 15.1 **Regulatory Information:** TSCA: 26655-10-7 Styrene-Acrylate Copolymer, 1333-86-4 Carbon black (bound), 9003-07-0 Polypropylene, 65997-04-8 Rosin Fumarated

EPA Regulatory Information: N/A

CERCLA Reportable Quantity: N/A

- 15.2 **Superfund Information:**

Hazard Categories:

Immediate: N/A

Delayed: N/A

Fire: NFPA Rating: Health = 1 Fire = 1 Reactivity = 0

Pressure: N/A

Reactivity: N/A

Section 302 - Extremely Hazardous: N/A

Section 311 - Hazardous: N/A

- 15.3 **State Regulations:** Proposition 65: None of the ingredients is listed.

- 15.4 **Other Regulatory Information:** Carcinogenic categories: EPA (Environmental Protection Agency), None of the ingredients is listed; TLV (Threshold Limit Value established by ACGIH), None of the ingredients is listed; NIOSH-Ca (National Institute for Occupational Safety and Health), None of the ingredients is listed. A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

General Comments: This information is based on our current knowledge. It should not therefore be construed as guaranteeing specific properties of the products as described or their suitability for a particular application

Creation Date of this SDS: 11/12/2019



SAFETY DATA SHEET

Key to Abbreviations and Acronyms used in this sheet:

ACGIH = American Conference of Governmental Industrial Hygienists	NIOSH = National Institute for Occupational Safety and Health
CERCLA = Comprehensive Environmental Response Compensation and Liability Act	OSHA = Occupational Health and Safety Administration
CLP = Classification, Labeling, and Packaging	PEL = Permissible Exposure Limit
DSD = Dangerous Substances Directive	SCBA = Self Contained Breathing Apparatus
EPA = Environmental Protection Agency	STOT = Specific Target Organ Toxicity
GHS = Globally Harmonized System	TLV = Threshold Limit Value
N/A = Not Applicable	UK = United Kingdom
NFPA = National Fire Protection Association	UN = United Nations

Ref:**DISCLAIMER**

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