MATERIAL SAFETY DATA SHEET

MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD 29CFR 1910.1200

MSE MICRO SOLUTIONS ENTERPRISES Choose Quality®

EMERGENCY TELEPHONE NUMBER 1-(800)-424-9300

DATE PREPARED - 11.09.10

SIGNATURE OF PREPARER (OPTIONAL)

SECTION 1 CHEMICAL PRODUCT / NAME

Product/chemical name:	**Brother TN-550**	**02-03-5514**
CAS number:	Mixture	
Other designations:	N/A	
General use:	Laser printer	

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name:	**CAS NUMBER**	**%**	**OSHA PEL**		**ACGIH TLV**		**OTHER LIMITS**
Styrene Acrylic Copolymer	26655-10-7	60-100					
Polypropylene	9003-07-0	1-5					
Carbon Black	133-86-4	1-5	3.5mg/m^3		3.5mg/m^3		
Dyestuff	11357-15-7	1-5					

NDA = NO DATA AVAILABLE
N/A = NOT APPLICABLE

SECTION 3 HAZARDOUS IDENTIFICATION

Classification:	This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended	HMIS H 1
Acute effects:		F 1
Inhalation:	Minimal irritation to the respiratory tract if exposed to large amounts of toner dust	R 1
Eye:	May cause slight eye irritation	PPE
Skin:	Unlikely to cause skin irritation	Sec.8
Ingestion:	Ingestion is a minor route of entry. Low acute toxicity	
Chronic effects:	Prolonged inhalation of excessive amounts of any dust may cause lung damage	
Carcinogenicity:	None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA, or ACGIH	

SECTION 4 FIRST AID MEASURES

Inhalation:	Move person to fresh air. If breathing is difficult, consult a physician.
Eye contact:	In case of contact immediately flush with plenty of low pressure water for at least 15 minutes. Remove any contact lenses to ensure thorough flushing. Do not rub eyes
Skin contact:	Wash affected area thoroughly with soap and water. If irritation persists, consult a physician
Ingestion:	Rinse mouth out with water. Drink one or two glasses of water. If symptoms occur, consult a physician

SECTION 5 FIRE FIGHTING MEASURES

Flash point:	N/A
Hazardous combustion products:	Carbon monoxide and carbon dioxide
Extinguishing media:	Water, dry chemical, carbon dioxide or foam
Fire-fighting instructions:	Avoid inhalation of smoke. Wear protective clothing and self contained breathing apparatus
Unusual fire or explosion hazards:	Toner is a combustible powder. Like most organic materials in powder form, it can form explosive mixtures when dispersed in air
LEL:	N/A
UEL:	N/A

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill / leak procedures:	Sweep or vacuum spilled toner and carefully transfer into sealable waste container. Sweep slowly to minimize generation of dust during cleanup. If vacuum is used, the motor must be rated at dust tight. A conductive hose bonded to the machine should be used to reduce static buildup (See section V). Residue can be removed with soap and cold water. Garments may be washed or dry cleaned after removal of loose toner.
Environmental precautions:	Do not flush into surface water or sanitary sewer systems. Dispose of waste material in accordance with local, state, and/or other federal regulations.

SECTION 7 HANDLING AND STORAGE

Handling precautions:	Keep containers closed when not in use. Handle and open containers with care. Use with adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Keep away from sources of heat, sparks, and open flames.
Storage requirements:	Store at room temperature in the original container. Keep container tightly closed and dry. Do not store with strong oxidizers.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:		
	USA OSHA:	TWA/PEL: 15 mg/m^3 (Total Dust), 5 mg/m^3 (Respiration Fraction)
	USA ACGIH:	TWA/TLV: 10mg/m^3 (Inhalable Fraction), 3mg/m^3 (Respirable Particulate)
	United Kingdom:	WEL: 10mg/m^3 (Inhalable Dust), 3mg/m^3 (Respirable Dust)
Personal Protective Equipment:		
Eye/Face Protection:	Wear dust resistant safety goggles if there is a danger of eye contact.	
Hands/Skin:	Wear protective gloves to avoid direct contact.	
Respiratory	Wear approved respirator for dust when exposure exceeds permissible limits.	
Additional Productive	Use in well ventilated area. Use engineering controls to reduce air contaminants to	
Comments:	Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, or applying cosmetics	

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor:	Black fine powder, faint odor	**Water solubility:**	Negligible
Odor threshold:	N/A	**Other solutabilites:**	Partial soluble in Tuolene & Xylene
Vapor pressure:	N/A		
Vapor density(air=1):	N/A	**Boiling point:**	N/A
Evaporation rate:	N/A	**Freezing/melting point:**	N/A
Formula weight:	N/A	**Viscosity:**	N/A
Density:	N/A	**Softening Point:**	~100°C
Specific gravity:	1.3-1.8	**Surface tension:**	N/A
pH:	N/A	**%Volatile:**	N/A

SECTION 10 STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Polymerization:	Will Not Occur
Conditions to avoid:	Heat flames and other sources or ignition. Keep dust away from ignition
Hazardous decomposition:	Carbon monoxide and carbon dioxide.
Incompatible materials:	Strong oxidizers.

SECTION 11 TOXICOLOGICAL INFORMATION

Eye effects:	Not classified as an eye irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC
Sensitization:	Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA HCS (US)
Acute inhalation effects:	Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
Acute oral effects:	Tests on toners have indicated there is no evidence or acute oral toxicity: Swallowed-LD50 (rat)>2500mg/kg (i.e. practically non-toxic). U Ewers and D Nowak, Luft 66(2006), No5, 203-210. Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.
Chronic Toxicity:	No data available
Carcinogenicity:	Not a known or suspected carcinogen according to IARC Monograph, NTP, OSHA Regulations(USA), EU Directive, or Prop 65 (California)
Mutagenicity:	No data available
Reproductive Toxicity:	Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop 765, and DFG (Germany)

*** See NIOSH,RTECS for additional toxicity data**

SECTION 12 ECOLOGICAL INFORMATION

This product has not been tested for ecological effects.

SECTION 13 DISPOSAL CONSIDERATIONS

General Information:	Dispose of spilled or waste product in accordance with all local, state, and federal regulations.
Disposal Methods:	Collect spilled or waste product in tightly sealed containers. Dispose product in accordance with all local, state, and federal regulations.

SECTION 14 TRANSPORT INFORMATION

DOT transportation data (49 CFR 172.101):

US DOT:	Not regulated as hazardous materials (dangerous goods) in transportation.
ICAO/IATA:	Not regulated as hazardous materials (dangerous goods) in transportation.
IMO/IMDG:	Not regulated as hazardous materials (dangerous goods) in transportation.

SECTION 15 REGULATORY INFORMATION

EPA regulations:	US EPA TSCA Inventory: All chemical substances in this product comply with all rules in orders under TSCA
CERCLA hazardous substance:	NONE
CERCLA reportable quantity (RQ):	NONE
SARA 311/312 codes:	NONE
SARA toxic chemical (40 CFR 372.65):	NONE
SARA EHS (40 CFR 355):	NONE
State Regulations:	Check your states regulations that may specifically list copy machine toner. All ingredients are listed on the TSCA inventory.

SECTION 16 OTHER INFORMATION

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