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Safety Data Sheet

SDS # : A-10021	Toner -	Black	
ssuing Date 2011-12-14	Revision Date 2	012-01-13	Version 1.0
1. Product and Company Ide	entification		
Trade Name: Toner	for Brother HL	.5340, Brother HL5370	
Part No. 106R02319, 106R023	320		
Color	Black		
Pure substance/preparation	Preparation		
Identified uses	Xerographic printing		
Manufactured by:	Xerox Corporation Webster, NY 14580		
Emergency telephone	Safety Information (800)82 Health Emergency (585)42 Chemical Emergency only	2-2177 (Chemtrec) (800)424-9300	
	or (703)527-3887 (collect o	utside the US or Canada)	
2. Hazards Identification		· · · · · · · · · · · · · · · · · · ·	
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	Emergency es which, in the form utiliz	Overview red and at their given concentration	ations, are considered to be Odor Faint
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None required



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3. Composition/Information on Ingredients

Chemical Name	CAS-No	Weight %
Styrene-acrylate copolymer	26655-10-7	60-100
Polypropylene wax	9003-07-0	1-5
Carbon Black	1333-86-4	1-5

4. First Aid Measures

General advice	For external use only. When symptoms persist or in all cases of doubt seek medical advice. Show this material safety data sheet to the doctor in attendance.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
Skin contact	Wash skin with soap and water
Inhalation	Move to fresh air
Ingestion	Rinse mouth with water and afterwards drink plenty of water or milk
Notes to physician	Treat symptomatically
Protection of first-aiders	No special protective equipment required.

5. Fire-Fighting Measures

Flammable properties	Not flammable. Will not readily ignite.
Flash point	not applicable
Suitable extinguishing media	Use water spray or fog; do not use straight streams, Foam
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire
Hazardous combustion products	Hazardous decomposition products due to incomplete combustion, Carbon oxides, Nitrogen oxides (NOx)
Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	Not impact sensitive Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Specific hazards arising from the chemical

Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Protective Equipment and Precautions for Firefighters

In the event of fire and/or explosion do not breathe fumes. Wear fire/flame resistant/retardant clothing. Use self-contained pressure-demand breathing apparatus if needed to prevent exposure to smoke or airborne toxins.



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NFPA 704 Consumer use	Health Hazard	Flammability	Stability 0	Special hazard None
Bulk packages	0	Flammability 3	Stability 0	Special hazard None
6. Accidental Release	Measures			
Personal Precautions	Avoid breath	ing dust.		
Environmental Precautions	Refer to prote	ective measures listed in Se	ections 7 and 8.	
Methods for containment	Prevent dust	cloud		
Methods for cleaning up		cloud. Sweep up or vacuur e non-sparking tools and ec		t in suitable container for
Other Information	See Section	12 for additional information	n.	
7. Handling and Storag	ge			
Advice on safe handling	Handle in acc Prevent dust	cordance with good industri cloud	ial hygiene and safety pr	ractice
Technical measures/Storage conditions	•	er tightly closed in a dry an n temperature	d well-ventilated place	
Hygiene measures	None under r	normal use condtions		
Industrial User	Wash hands Wash hands	rink or smoke when using t before eating, drinking, che before breaks and at the en lar cleaning of equipment, v	ewing gum, using tobacc nd of workday	o, or using toilet

8. Exposure Controls/Personal Protection

Exposure guidelines

Product information

ACGIH TLV TWA	10 mg/m ^{er 3} (inhalable particles)
ACGIH TLV TWA	3 mg/m ^{er 3} (respirable dust)
OSHA PEL TWA	15 mg/m ^{er 3} (total dust)
OSHA PEL TWA	5 mg/m ^{er 3} (respirable dust)
Xerox Exposure Limit	2.5 mg/m ^{er 3} (total dust)
Xerox Exposure Limit	0.4 mg/m ^{er 3} (respirable dust)

Other Information

The results obtained from a Xerox sponsored Chronic Toner Inhalation Study demonstrated no lung changes in rats for the lowest (1mg/m^{er3}) exposure level (the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of animals at the middle (4mg/m^{er3}) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16mg/m^{er3}) exposure level. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special test toner to comply with an EPA testing protocol.



Biological standards This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Occupational Exposure Controls

Engineering measures	None under normal use conditions.
Industrial use	Avoid dust formation Ensure all equipment is electrically grounded before beginning transfer operations Provide appropriate exhaust ventilation at places where dust is formed

Personal Protective Equipment

Consumer use	These recommendations apply to the product as supplied
Respiratory protection	No special protective equipment required.
Eye/Face protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
Hand protection	No special protective equipment required
Industrial use	In case of insufficient ventilation: Wear protective eyewear (goggles) Effective dust mask

9. Physical and Chemical Properties

Appearance Odor threshold pH Flash point Softening point	Powder not applicable not applicable not applicable 49 - 60 °C / 12	0 - 140 °F	Odor Physical state Color Boiling point/range Autoignition temperature	Faint Solid Black not applicable not applicable
Flammability Lim	its in Air	not applicable		
Explosive proper Vapor pressure Vapor density Water solubility Viscosity Partition coefficie Evaporation rate Melting point/ran Freezing point Specific gravity	ent	Fine dust dispersed in ai source is a potential dust not applicable not applicable not applicable not applicable not applicable Not determined not applicable ~ 1	•	ntrations, and in the presence of an ignition



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Reactivity No dangerous reaction known under conditions of normal use Stability Stable under normal conditions Incompatible products None Conditions to Avoid Prevent dust cloud, Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard Hazardous Decomposition Products None under normal use Hazardous polymerization Hazardous polymerization does not occur Hazardous reactions None under normal processing. 11. Toxicological Information Information The toxicity Product information Intration No skin irritation No eye irritation Information > 5 g/kg (rat) LDS0 Oral: > 5 g/kg (rat) LDS0 Dermal: > 5 g/kg (rat) LDS0 Dermal: > 5 g/kg (rat) LS50 Inhalation: > 5 g/kg (rat) Inhalation No known effect Skin No known effect Skin No known effect under normal use conditions. Repeated or prolonged inhalation may cause irritation or the respiratory tract as can occur with the inhalation of any non- toxic dust. Minimum respiratory tract as can occur with the inhalation may cause irritation or the respiratory tract as can occur with the inhalation may cause irritation or the respiratory tract a	tability compatible products onditions to Avoid	Stable und		innai use
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Chemical NameIARCNTPCarbon Black2B				
Carbon Black 2B		See "Other		
				NTP
Other toxic effects			28	

No sensitization responses were observed

Mutagenic effects Target organ effects Not mutagenic in AMES Test None known.



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Other adverse effects	None known
Aspiration Hazard	not applicable

Other information

The IARC (International Agency for Research on Cancer) has listed carbon black as "possibly carcinogenic to humans". The classification is based on studies evaluating pure, "free" carbon black. In contrast, toner is a formulation composed of specially prepared polymer and a small amount of carbon black (or other pigment). In the process of making toner, the small amount of carbon black becomes encapsulated within a matrix. Xerox has performed extensive testing of toner, including a chronic bioassay (test for potential carcinogenicity). Exposure to toner did not produce evidence of cancer in exposed animals. The results were submitted to regulatory agencies and published extensively.

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•	12. Ecological Information	
	12 ECOLOGICAL INFORMATION	

Ecotoxicity

The environmental impact of this product has not been fully investigated. However, this preparation is not expected to present significant adverse environmental effects.

13. Disposal Consideration	IS
Waste Disposal Methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements
Contaminated packaging	Dispose of in accordance with local regulations.
14. Transport Information	
Note	This material is not subject to regulation as a hazardous material for shipping.
15. Regulatory Information	n

International Inventories	
TSCA	Complies
DSL/NDSL	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No



Clean Water Act

This product is not regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42). Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product is not regulated as a hazardous air pollutant (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

TSCA

TSCA 12b does not apply to this product.

U.S. State Regulations

California Proposition 65

Carbon black is regulated under California Proposition 65 only if in the form of "airborne, unbound particles of respirable size". Toner products do not contain carbon black in the form of "airborne, unbound particles of respirable size". Therefore, the requirements of Proposition 65 do not apply to this product.

Chemical Name	CAS-No	California Prop. 65
Carbon Black	1333-86-4	Carcinogen

U.S. State Right-to-Know Regulations

Although this product contains substances included in some U.S. State Right-to-Know regulations, the particles are bound in a unique matrix and, therefore, the product does not pose any specific hazard.

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not subject to WHMIS classification

16. Other Information	
Issuing Date	2011-12-14
Revision Date	2012-01-13
Revision Note	Model #(s) Brother HL53701 added

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

end