

MATERIAL SAFETY DATA SHEET: 2000808001US Date Prepared: Date(s) Revised:

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KONICA TONER 7415

Company Name: Konica Business Technologies, Inc. 500 Day Hill Road, Windsor, CT 06095, U.S.A.

Telephone Number: TEL: 860-683-2402 x 2093 FAX: 860-902-7637

Emergency Telephone Number: CHEMTREC 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS INGREDIENTS CAS# wt.% \_\_\_\_\_ Trade Secret > 90 1333-86-4 1 - 5 Polyester resin Carbon black Polyolefin wax Trade Secret Trade Secret 1 - 5 Organic Pigment

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW \* Black powder. Faint odor. POTENTIAL HEALTH EFFECTS Eye Effects:None currently known.Skin Effects:None currently known.Ingestion Effects:None currently known.Inhalation Effects:None currently known. None currently known. Minimal respiratory tract irritation may occur as with exposure to large amount of any non-toxic dust. Chronic Effects/ Carcinogenicity: Prolonged inhalation of excessive dusts may cause lung damage. The effect is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged period. Use of this product, as intended, does not result in inhalation of excessive dust. Carbon black is classified as a group 2B carcinogen (possible human carcinogen) by IARC. However, based on animal testing, it is presumed that there is no association between toner exposure and cancer.

4.	FIRST AID MEASU	URES					
	Eye:	Flush eyes lightly with plenty of water. If symptoms occur,					
		get medical attention.					
	Skin:	Wash with water and mild soap.					
	Ingestion:	out mouth with water. Drink one or two glasses of water.					
		If symptoms occur, get medical attention.					
	Inhalation:	Remove victim to fresh air. If symptoms occur, get medical					
		attention.					
5	FIRE FIGHTING MEASURES						
-	Flash Point:	Not applicable.					
	Method Used:	Not applicable.					
	Flammable Limit						
	Autoignition						
	Temperature	e: Not available.					
	Flammability						
	Classificat	tion: Not applicable.					
	Unusual Fire an						
	Explosion Ha	azard: Combustible powder. Dusts at sufficient concentrations					
		can form explosive mixtures with air.					
	Extinguishing N	Media: Water spray, dry chemical, foam.					
	Fire Fighting:	Wear self-contained breathing apparatus and protective					
		clothing to prevent contact with skin and eyes. If fire					
		is in the machine treat as an electric fire, do not use					
		water or foam.					
	Hazardous Comb						
	Products:	Carbon monoxide, carbon dioxide, and smoke.					
6	. ACCIDENTAL RE	LEASE MEASURES					
0		age Procedures:					
	-	al protective equipment(See Section 8). Minimize the release					
	of particulates. Sweep or vacuum material, place in a bag and hold for						
		vaste disposal. Use vacuum with HEPA filter. Vacuum should be electrically					
		grounded to dissipate static electricity. To avoid dust					
		do not sweep dry.					
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7	. HANDLING AND S	STORAGE					
	Handling:						
	Keep out of reach of children. Try not to disperse the particles. Avoid						
	prolonged inhalation of excessive dust and contact with eyes.						
		Fire and Explosion:					
	This materia	l is capable of creating a dust explosion. Keep away from					

heat, sparks and flame.

Storage:

Keep container tightly closed. Store in a cool and dry place. Keep away from oxidizers.

Exposure Standards:		ACGIH TI	-V	
INGREDIENTS		TWA	STEL	OSHA PEL
Polyester resin		None		None
		established		established
Carbon black		3.5 mg/m3		3.5 mg/m3
Polyolefin wax		None		None
		established		established
Organic Pigment		None established		None established
		established		established
Engineering Controls:	-	ral ventilation is		
Respiratory Protection				
		ormal operating pro		
		large spill), gogg	les and res	spirators may
Skin Protection:	be require			
		red under normal co red under normal co		
Eye Protection:	Not requi	red under normal co	Shartrons.	
. PHYSICAL AND CHEMICAL	PROPERTIES			
Appearance: Blac	k powder.			
	t odor.			
pH: Not	applicable.			
Vapor Pressure: Not	applicable.			
	applicable.			
Evaporation Rate: Not				
Boiling Point: Not applicable.				
Melting Point: 120 to 130°C {~248 to 266°F }(Softening point).				
Solubility: Insoluble in water. Specific Gravity: 1.20 {bulk density: 0.5}				
Specific Gravity: 1.20	{bulk dens:	ity: 0.5}		
	TTY			
STARILITY AND REACTING		Stable.		
. STABILITY AND REACTIV		DCUDIC.		
Stability:		Oxidizera		
	n Products:	Oxidizers.	rarbon diox	ride and smok

11. TOXICOLOGICAL INFORMATION: Product Acute oral toxicity: LD50:>5000mg/kg[rat]. Acute dermal toxicity: LD50:>2000mg/kg[rat]. LC50:>0.74mg/l/4hrs.[rat](This value is highest Inhalation: attainable with aerosol generation apparatus). Eye irritation: Non-irritant[rabbit]. Skin irritation: Non-irritant[rabbit]. Chronic Effects/Carcinogenicity: In a two-year inhalation study of chronic toxicity and carcinogenicity using a typical toner in rats, there were no lung changes at all in the lowest exposure level (1mg/m3), the most relevant level to potential human exposures. A minimal to mild degree of fibrosis was noted in 22% of the animals at the middle exposure level (4mg/m3), and a mild to moderate degree of fibrosis was observed in 92% of the rats at the highest exposure level(16mg/m3). The lung changes observed in the higher exposure groups are interpreted in terms of "lung overloading", a series of generic responses to the presence of large quantities of respirable, insoluble and relatively benign dusts retained for extended time periods in the lungs. Lung tumor frequency was unchanged among rats exposed to toner at the three exposure levels, and for air-only control rats.

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Mutagenicity:
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Ames test: Negative.

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Ingredients
Carbon black
Acute oral toxicity: LD50: >15400mg/kg[rat].
Acute dermal toxicity: LD50: >3gm/kg[rabbit].
Carcinogenicity:
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The IARC reevaluated carbon black as a group 2B carcinogen (possible human carcinogen) in Monograph Volume 65 in 1996. This category has been given to carbon black, based on IARC's evaluations that there is inadequate evidence in humans for the carcinogenicity of carbon black, but there is sufficient evidence in experimental animals. The latter evaluation was made due to the development of lung tumors in rats receiving chronic inhalation exposure to free carbon black at levels that induce "lung overloading". However, studies performed in mice have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats. (See chronic effects in this section.)

12. ECOLOGICAL INFORMATION: No data available.

13. DISPOSAL CONSIDERATIONS: When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method. Do not discard toner cartridges into fireplace or heating stove. 14. TRANSPORT INFORMATION: DOT/TDG CLASS: Not Regulated. 15. REGULATORY INFORMATION: OSHA Hazard Communication Standard, 29CFR 1910.1200: Ingredient carbon black is considered hazardous. CERCLA(Comprehensive Environmental Response Compensation and Liability Act): None. SARA Title III (Superfund Amendments and Reauthorization Act): 302 Extreme Hazardous Substance: None. 311/312 Hazard Categories: None. 313 Reportable Ingredients: None. TSCA(Toxic Substance Control Act): All chemical substances in this product comply with all applicable rules or order under TSCA. California Proposition 65: This product contains no chemical substances subject to California Proposition 65. 16. OTHER INFORMATION: HMIS Hazard Rating Health: 1, Flammability: 1, Reactivity: 0 References IARC (1996) IARC Monographs on the Evaluation of the Carcinogenic Risks of Chemicals to Humans, Vol. 65, Printing Processes and Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp. 149-261 H. Muhle, B. Bellmann, O. Creutzenberg, C. Dasenbrock, H. Ernst, R. Kilpper, J. C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka, and R. Mermelstein (1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats, Fundamental and Applied Toxicology Prepared by Konica Corporation No.26-2 Nishishinjuku 1-chome Shinjuku-ku, Tokyo 163-05, Japan The above information is believed to be accurate and represents the best

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