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MSDS #: TC1129-0303

Product Code: 3708A / M95-0401

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

CON	II AN I/UNDERTAINING				
Product Identifier:					
Product Name:	MP20P Cartridge				
Product Code:	3708A / M95-0401				
Relevant Identified Us	Ses: Toner for electrophotographic apparatus				
Details of Supplier of Supplier:	Safety Data Sheet:				
Address:					
Telephone Number:					
E-mail Address:					
Emergency Telephone	Number:				
Manufacturer:	CANON ELECTRONICS INC.				
Address:	1248 Shimokagemori, Chichibu-shi, Saitama 369-1892, Japan				
SECTION 2 HAZ	ZARDS IDENTIFICATION				
Emergency Overview:	Black fine powder, slight plastic odor.				
US Regulatory Status Not classified as ha					
US Label Elements un					
Signal Word:	Not required				
Hazard Warning:	Not required				
Safety Advice:	Not required				
Hazardous Compon	ent: Not required				
EU Classification under Not classified as date					
EU Label Elements un	der 1999/45/EC:				
Symbol & Indication	Symbol & Indication: Not required				
R-Phrase:	Not required				
S-Phrase:	Not required				
Dangerous Compon	ent: Not required				
Applicable Label El Not required	lements in accordance with Annex V to 1999/45/EC:				
Other Hazards: None					



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SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance or Mixture: Mixture

Ingredient(s):

Chemical Name/ Generic Name	CAS #/ EC #	Concentration/ Concentration Range (%)	67/548/EEC		EU Classification according to (EC) No 1272/2008 Hazard Class/ Hazard		Note to Other
			Symbol/ Indication of Danger	R-Phrase*1	Hazard Class/ Category Code	Hazard Statement*	Hazards*2
Styrene acrylate copolymer	Confidential	50-60	None	None	None	None	
Iron oxide	1317-61-9/ 215-277-5	30-40	None	None	None	None	
Styrene polymer	Confidential	5-10	None	None	None	None	

^{*1} Full texts of R-phrase(s) and Hazard statement(s) are listed in SECTION 16

Carcinogen(s)

No component of this toner is listed as a human carcinogen or a potential carcinogen in IARC Monographs, NTP, OSHA regulations or Part 3 of Annex VI to Regulation (EC) No 1272/2008.

^{*2} The following substance(s) is (are) marked with (1), (2) and/or (3)

⁽¹⁾ Substance for which Occupational Exposure Limit(s) is (are) established (See SECTION 8)

⁽²⁾ PBT substance or vPvB substance under Regulation (EC) No 1907/2006

⁽³⁾ Substance listed in Candidate List of SVHC for Authorisation under Regulation (EC) No 1907/2006



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SECTION 4 FIRST AID MEASURES

First Aid Measures:

Inhalation:

If symptoms are experienced, move victim to fresh air and obtain medical advice.

Ingestion:

Rinse mouth. Drink 1 or 2 glasses of water. If irritation or discomfort occurs, obtain medical advice immediately. **Skin:**

Wash with soap and water. If irritation persists, obtain medical advice.

Eve:

Do not allow victim to rub eye(s). Flush with lukewarm, gently flowing water for 5 minutes or until particle is removed. If irritation persists, obtain medical attention.

Most Important Symptoms and Effects, both Acute and Delayed:

Inhalation:

Exposure to excessive amounts of dust may cause physical irritation to respiratory tract.

Ingestion:

Practically non-toxic. Ingestion is a minor route of entry for intended use of this product.

Skin:

May be non-irritant.

Eye:

May cause transient slight irritation.

Chronic Effects:

Prolonged inhalation of excessive amounts of dust may cause lung damage. Use of this product as intended does not result in inhalation of excessive amounts of dust.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

None

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media:

CO2, water, dry chemicals

Unsuitable Extinguishing Media:

None

Special Hazards:

Can form explosive dust-air mixtures when finely dispersed in air.

Hazardous Combustion Products:

CO2, CO

Advice for Fire-fighters:

Wear gloves, glasses, a mask if necessary.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid breathing dust. Wash thoroughly after handling.

Environmental Precautions:

Do not wash away into sewer.

Methods and Material for Containment and Cleaning Up:

Sweep slowly spilled powder on to paper, and carefully transfer into a waste container. Clean remainder with wet paper, wet cloth or a vacuum cleaner.

If a vacuum cleaner is used, it must rate as a dust explosion-proof type. Fine powder can form explosive dust-air mixtures.



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SECTION 7 HANDLING AND STORAGE						
Precautions for Safe Handling:						
Avoid breathing dust. Wash thoroughly after handling.						
Use with adequate ventilation.						
Conditions for Safe Storage, Including Any Incompatibilities:						
Keep out of the reach of		F				
Keep away from oxidiz						
Specific End Uses:						
Toner for electrophotog	raphic apparatus					
For more information,		ruction of this product.				
SECTION 8 EXPOSE	URE CONTROLS / I	PERSONAL PROTE	CTION			
Control Parameters:	USA	ACGIH TLV	EU OEL			
	OSHA PEL					
Product (Toner)	PNOR:	PNOS:	Not established			
	TWA 15 mg/m ³	TWA 10 mg/m^3				
	(Total dust),	(Inhalable fraction),				
	TWA 5 mg/m ³	TWA 3 mg/m ³				
	(Respirable fraction)	(Respirable fraction)		-		
Ingredient(s)	Not established	Not established	Not established	•		
				-		
Exposure Controls:						
Engineering Controls: No special ventilation	equinment is needed t	under intended use of th	nis product			
Individual Protection M		maci intended use of the	ns product.			
Eye/Face Protection:						
	Not Required					
Skin Protection:	Required					
	Not Required					
Descriptions Ductations D. D. C. J.						
Respiratory Protection: Required						
	Not Required					



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SECTION 9 PHYSICAL AND	CHEMICAL PROPERTIES
Information on Basic Physical and C	
Appearance:	Black fine powder
Odor:	Slight plastic odor
pH:	Not applicable
Melting Point/Freezing Point (°C):	100-150 (Softening point)
Initial Boiling Point and Boiling Range (°C):	Not applicable
Flash Point(°C):	Not applicable
Evaporation Rate:	Not applicable
Flammability:	Estimate: Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids)) (See SECTION 16)
Upper/Lower Flammable or Explosive Limits:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	1.4-1.6
Water Solubility:	Negligible
Fat Solubility:	Partially soluble in toluene and xylene.
Partition Coefficient (n-Octanol/Wa	ater): Not applicable
Auto-ignition Temperature (${}^{\circ}$ C):	Not available
Decomposition Temperature (${}^{\circ}$ C):	> 200
Viscosity (mPa s):	Not applicable
Explosive Properties:	Can form explosive dust-air mixtures when finely dispersed in air.
Oxidizing Properties:	Not available
Other Information:	Not available
SECTION 10 STABILITY AND	REACTIVITY
Reactivity:	None
Chemical Stability:	
Possibility of Hazardous Reactions:	None
Conditions to Avoid:	None
Incompatible Materials:	Strong oxidizers
Hazardous Decomposition Products	: CO. CO2

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SECTION 11 TOXICOLOGICAL INFORMATION

Information on Toxicological Effects:

Acute Toxicity:

Inhalation:

Not available

Ingestion:

Estimate: Rat, LD50 > 5000 mg/kg (See SECTION 16)

Corrosivity/Irritation:

Skin:

Estimate: Rabbit, non-irritant (See SECTION 16)

Eye:

Estimate: Rabbit, transient slight conjunctival irritation only. (See SECTION 16)

Sensitization:

Skin:

Guinea pig: Non-sensitizing

Repeated Dose Toxicity:

Muhle et al. reported pulmonary response upon chronic inhalation exposure in rats to a toner enriched in respirable-sized particles compared to commercial toner. No pulmonary change was found at 1 mg/m^3 which is most relevant to potential human exposure. A minimal to mild degree of fibrosis was noted in 22% of the animals at 4 mg/m^3 , and a mild to moderate degree of fibrosis was observed in 92% of the animals at 16 mg/m^3 .

These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lung for a prolonged interval.

Carcinogenicity:

Not available

Mutagenicity:

Ames Test (S. typhimurium): Negative

Toxicity for Reproduction:

Not available

Other Information:

Not available

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SECTION 12 ECOLOGICAL INFORMATION

Toxicity: Fish, 96h LC50 > 100 mg/l

Crustaceans, 48h EC50 > 100 mg/l Algae, ErC50(0-72h) > 100 mg/l

Persistence and Degradability: Not available

Bioaccumulative Potential: Not available

Mobility in Soil: Not available

Results of PBT and vPvB

No results that the component(s) of this toner meet(s) the PBT or vPvB criteria

Assessment: under Regulation (EC) No 1907/2006.

Other Adverse Effects: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

DO NOT put toner or toner container into fire; heated toner may cause severe burns. DO NOT shred a toner container, unless dust-explosion preventing measures are taken. Finely dispersed particles form explosive mixtures in air. Disposal should be subject to federal, state and local laws.

SECTION 14 TRANSPORT INFORMATION

UN Number: By ship:None By air:Not identified

UN Proper Shipping Name: By ship:None By air:Not identified

Transport Hazard Class: By ship:None By air:Not identified

Packing Group: By ship:None By air:Not identified

Environmental Hazards: Not classified as environmentally hazardous under UN Model Regulations and

marine pollutant under IMDG Code.

Special Precautions for User: None

SECTION 15 REGULATORY INFORMATION

< USA Information > SARA Title III §313:

Chemical Name Weight %

None

California Proposition 65:

Chemical Name Weight %
None

< EU Information >

Safety, Health and Environmental Regulations/Legislation:

(EC) No 1907/2006: Authorisation: Not regulated

Restriction: Not regulated

(EC) No 1005/2009: Not regulated

(EC) No 850/2004: Not regulated

(EC) No 689/2008: Not regulated

Others: None

Chemical Safety Assessment under (EC) No 1907/2006: Not required



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SECTION 15 REGULATORY INFORMATION (continued)

< Canada Information >

WHMIS Controlled Product: Not applicable (Manufactured article)

< Australia Information >

Statement of Hazardous Nature: Not classified as hazardous according to criteria of NOHSC.

SECTION 16 OTHER INFORMATION

<Revised information from the previous version>

Entirely revised

<Term explanation>

Estimate: Estimate based on data of similar product or the ingredient(s) of this product.

<EU SDS information>

This safety data sheet (SDS) is supplied voluntarily.

Literature References:

- U.S. Department of Labor, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- EU Directive 1999/45/EC
- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EC) No 689/2008
- Canada Workplace Hazardous Materials Information System
- Australia National Occupational Health and Safety Commission's Approved Criteria for Classifying Hazardous Substances[NOHSC:1008]

Abbreviations:

OSHA HCS: Occupational Safety and Health Act, Hazard Communication Standard (USA)

FHSA: Federal Hazardous Substances Act (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative SVHC: Substances of Very High Concern

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program (USA)

OSHA PEL: PEL(Permissible Exposure Limit) under Occupational Safety and Health Administration (USA)

ACGIH TLV: TLV(Threshold Limit Value) under American Conference of Governmental Industrial Hygienists

EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and

2009/161/EU

TWA: Time Weighted Average STEL: Short Term Exposure Limit

PNOR: Particulates Not Otherwise Regulated

PNOS: Particles (insoluble or poorly soluble) Not Otherwise Specified WHMIS: Workplace Hazardous Materials Information System NOHSC: National Occupational Health and Safety Commission

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