

SAFETY DATA SHEET

Date: Issued 09 December 2019 Version Number: 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

	1.1	Product identifier
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Product Name: AN-HF294A/AN-HF294X toner cartridge

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s):

HP LaserJet Pro MFP M148dw/M148fdw/M149fdw,HP LaserJet Pro M118dw.

The cartridge should be used as supplied by Aster and for use in the products stated. Information provided on this SDS is only consistent with the use specified by Aster.

1.3	Details of the supplier of the safety data	sheet
	Manufacturer:	Jiangxi YiBo E-TECH Co., Ltd
		Feiyu avenue No.756,Xinyu high technology industry area,
		Jiangxi province, 338004 China Telephone: +86 (0)790 7131699
		Telephone. +66 (0)/90 / 131699
		Aster Graphics Company Limited
		No. A22-23, Bld. D1, Phase 🕅, New Town, Agile Garden
		Sanxiang, Zhongshan,Guangdong
		528463 China
		Telephone: +86 (0)760 86331988
	E-Mail (competent person):	EU: europe@goaster.com
		US: <u>usasales@goaster.com</u>
1.4	Emergency telephone number	CHEMTREC
	Emergency Phone No. (24 hours)	EU: Tel +31 77 737 0091
		US: Tel (562) 404-9315
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SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture EU Classification:	Not classified as hazardous according to EU Directive 1272/2008/EC.
	Australia Classification:	Not classified as hazardous according to the criteria of NOHSC.
2.2 2.3	Label elements Other hazards	Label elements according to EU Directive 1272/2008/EC: None None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3 Mixtures

Styrene-acrylate Toner (Mixture).

Chemical Name	CAS No.	EC No	%W/W	EU Hazard Symbols	EU Hazard Symbols
Styrene-acrylate Copolymer	Confidential	not applicable	85~90	Not classified	Not classified
Carbon Black	Confidential	not applicable	4~7	Not classified	Not classified
Paraffin Wax	Confidential	not applicable.	2~4	Not classified	Not classified
Fatty Acid Ester	Confidential	not applicable.	2.5~4	Not classified	Not classified
Silicon Dioxide	Confidential	not applicable.	0.5~4.5	Not classified	Not classified

SECTION 4: FIRST AID MEASURES

4.1	Description of first aid measures	
	Inhalation:	Obtain immediate medical attention. In case of accident by inhalation remove casualty to fresh air and keep at rest.
	Skin Contact:	Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water.
	Eye Contact:	Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.
	Ingestion:	Obtain medical attention. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink.
4.2	Most important symptoms and effects, both acute and delayed	If symptoms persist, obtain medical attention.
4.3	Indication of any immediate medical attention and special treatment needed	Treat symptomatically.
SEC	TION 5: FIRE-FIGHTING MEASURES	
5.1	Extinguishing media	
	Suitable Extinguishing Media:	Extinguish preferably with dry chemical, Carbon dioxide, Water spray, Foam.
	Unsuitable Extinguishing Media:	Do not use water jet.
5.2	Special hazards arising from the substance or mixture	May form explosible dust clouds in air.
5.3	Advice for fire-fighters	Do not use high-pressure water in order to prevent creating a dust cloud and spreading fire dust. Use appropriate respirator for carbon monoxide and carbon dioxide. Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective	Avoid generation of dust. Do not breathe dust.
	equipment and emergency procedures	A suitable dust mask or dust respirator with filter type A/P may be appropriate.
	procedures	
6.2	Environmental precautions	Prevent substance entering sewers. Washings must be prevented from entering surface water drains.

any source.

a fire. Personnel not having suitable respiratory protection must leave the area to prevent significant exposure to toxic combustion gases from

6.3	Methods and material for containment and cleaning up	Sweep the spilt toner or remove it with a vacuum cleaner and transfer into a sealed container carefully. Sweep slowly to minimize generation of dust during clean-up. If a vacuum cleaner is used, the motor must be rated as dust explosion-proof. Potential for very fine particles to be taken into the vacuum only to be passed back into the environment due to pore size in the bag or filter. DISPOSAL CONSIDERATIONS - See Section: 13.
6.4	Reference to other sections	See Section: 8.
SEC	TION 7: HANDLING AND STORAGE	
7.1	Precautions for safe handling	Keep out of the reach of children. Avoid dust generation. Avoid inhalation of high concentrations of dust. Avoid contact with eyes.
7.2	Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from oxidizing agents.
7.3	Specific end use(s)	These products are black toner in a cartridge for HP laser printers, multifunction devices and fax receivers. The cartridge should be used

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits:

Substance	CAS No.	OSHA PEL	ACGIH TLV	EU IOELV
Carbon Black	Confidential	3.5 mg/m3TWA	3 mg/m3TWA	None.
Paraffin Wax	8002-74-2	None.	2 mg/m3 TWA	None.
Silicon Dioxide (amorphous)	84491-94-7	20mppcf 80 (mg/m3)/% SiO2	None.	None.
Silicon Dioxide (amorphous)	112945-52-5	20mppcf 80 (mg/m3)/% SiO2	None.	None.

as supplied by Aster and for use in the products stated.

Addi	tional Information:	USA OSHA PEL (TWA): 15 mg/m3 (Total Dust) 5mg/m3 (Respirable Fraction).
		ACGIH TLV (TWA): 10 mg/m3 (Inhalable particles) 3 mg/m3 (Respirable particles).
8.2	Exposure controls	Not normally required.
	Appropriate engineering controls	Good general ventilation should be sufficient under normal use.
Pe	Personal Protection	Not normally required. For use other than in normal operating procedures (such as in the event of large spill), the following should be applied:
	Eye/face protection	Goggles.
	Skin protection	Protective gloves.
	Respiratory protection	Dust mask. (Large spillages: Respirator).
	Other:	Not applicable.
	Environmental Exposure Controls	Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical	and chemical properties
Appe	arance (20 0C):	Solid, Powder.

Color:	Black
Odor:	Odorless.
Boiling point/boiling range ($^{\circ}$ C):	Not applicable.
Melting point ($^{\circ}$ C) / Freezing point ($^{\circ}$ C):	No data.
Vapor pressure (Pascal):	Not applicable.
pH (Value):	Not applicable.
Viscosity (mPa. s):	Not applicable.
Flash point (℃):	Not applicable.
Explosive limit ranges:	No data.
Explosive properties:	May form explosible dust clouds in air.
Specific Gravity:	No data.
Vapor density (Air=1):	Not applicable.
Partition coefficient (n-Octanol/water):	No data.
Relative Evaporation Rate (Butyl Acetate = 1):	Not applicable.
Oxidising properties:	No data.
Solubility (Water):	Negligible.
Solubility (Other):	No data.
9.2 Other information	None.
SECTION 10: STABILITY AND REACTIVITY	
10.1 Reactivity	None anticipated.
10.2 Chemical stability	Stable.
10.3 Possibility of hazardous reactions	None.
10.4 Conditions to avoid	Keep at temperature not exceeding: 200° C. Avoid friction, sparks, or

	other means of ignition.
10.5 Incompatible materials	Strong oxidising agents.
10.6 Hazardous Decomposition	Containe: Carbon manavide, Carbon diavide and Nitragan avide
Product(s)	Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11	Information on toxicological effects	
	Acute toxicity:	
	Ingestion:	Acute LD50 > 2000mg/kg (Method: OECD#420)
	Inhalation:	Acute LC50 > 3.4mg/I (The highest technically achievable concentration) (Method: OECD#436)
	Skin Contact:	No data.
	Eye Contact:	No data.
	Skin corrosion/irritation:	Non-irritant. (Method: OECD#404)
	Serious eye damage/irritation:	Slight irritant to the eye. (Method: OECD#405)
	Respiratory or skin sensitization:	It is not a skin sensitizer. (Method: OECD#429)
	Mutagenicity:	Negative. (Method: OECD#471 / Ames test)
	Carcinogenicity:	

Carbon Black:

In 1996, the IARC reevaluated carbon black as a Group 2B carcinogen (possible human carcinogen). This classification is given to chemicals, for which there is inadequate human evidence, but sufficient animal evidence on which to base an opinion of carcinogenicity. The classification is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung.

Studies performed in animal models other than rats did not show any association between carbon black and lung tumors. Moreover, a twoyear cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats

Other ingredients of this product have not been classified as carcinogens according to IARC monographs, NTP and OSHA. Reproductive toxicity: No data. STOT-single exposure: No data. STOT-repeated exposure: No data. Aspiration hazard: No data. Potential Health Effects from Routes of exposure: overexposure: Skin Contact, Eye Contact, Inhalation (Dust). Minimal respiratory tract irritation may occur as with large amounts of any non-toxic dust. Thermal decomposition will evolve toxic and irritant vapors. Combustion products: See Section: 10. Potential Health Effects: Routes of exposure: Skin Contact, Eye Contact, Inhalation (Dust). Inhalation (Dust). For large quantities: May cause irritation to the respiratory system. Effects and Symptoms -Increased difficulty in breathing. Sneezing. Coughing. Use this product as intended in order to prevent the dust leakage that leads to exposure.

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Skin Contact: No specific effects and/or symptoms have been reported or No specific effects and/or symptoms have been reported or known.

Eye Contact: May cause eye irritation. Use this product as intended in order to prevent the dust leakage that leads to exposure.

Ingestion: May cause stomach ache. Unlikely route of exposure.

SECTION 12: ECOLOGICAL INFORMATION

No data available on the adverse effects of this product on the environment.

12.1	Toxicity	No data.
12.2	Persistence and degradability	No data.
12.3	Bioaccumulative potential	No data.
12.4	Mobility in soil	No data.
12.5	Results of PBT and vPvB assessment	No data.
12.6	Other adverse effects	No data.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Do not put toner or toner cartridges into a fire, this can cause fire to spread with the risk of causing burn injuries. Shred toner cartridges in a dust/explosion controlled environment. Finely dispersed particles may form explosive mixtures in the air. Dispose of in compliance with Federal, State and local regulations

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

14.1 UN number

13

14.2 Proper Shipping Name

None. None.

	ransport hazard class(es)	None.
	acking Group nvironmental hazards	None. None.
•	pecial precautions for user ransport in bulk according to Annex II	None. Not applicable.
of	MARPOL73/78 and the IBC Code	
SECTIC	ON 15: REGULATORY INFORMATION	1
15.1 Sa	afety, health and environmental	EU: Not classified as dangerous for supply/use.
re	gulations/legislation specific for	(1272/2008/EC) Hazard Symbol, Risk Phrases,
th	e substance or mixture	Safety Phrases: None assigned.
		USA: All chemicals in this product comply with TSCA rules
		and regulations including TSCA Section 5 (Inventory Rules).
		WHMIS: Not applicable. (Manufactured article)
15.2 C	hemical Safety Assessment	No.
SECTIC	ON 16: OTHER INFORMATION	
Hazard	Symbol:	None.
Risk Ph	rases:	None.
The follo	owing sections contain revisions	
or new s	statements:	All Sections.
Addition	al information:	The information relates only to this product. It may not be yolid if your
		The information relates only to this product. It may not be valid, if used in combination with any other materials or in any other
		process, and it is based on our best knowledge as of the date of
		preparation (revision).
Referen	ices:	U.S. 29CFR Part 1910
		ACGIH Threshold Limit Values for Chemical Substances and
		Physical Agents and Biological Exposure Indices
		EU Directive 91/322/EEC and 2000/39/EC
		IARC Monographs on the Evaluation Carcinogenic Risks to Humans
		World Health Organization
		NTP 11th Report on Carcinogens
Abbrevia	ations:	ACGIH: American Conference of Governmental Industrial Hygienists
		ADR: European Agreement concerning the International carriage of
		Dangerous goods by Road (EU)
		DOT: Department Of Transportation (US)
		EINECS: European Inventory of Existing Commercial Chemical
		Substances HCS: Hazard Communication Standard (US)
		IARC: International Agency for Research on Cancer IATA: International
		Air Transport Association IMDG: International Maritime Dangerous Goods IOELV: Indicative Occupational Exposure Limit Value
		NOHSC: National Occupational Health and Safety
		Commission
		(Australia)NTP: National Toxicology Program (US)
		OSHA: Occupational Safety and Health Administration (US) PEL: Permissible Exposure Limit
		RID: Regulations concerning the International carriage of goods by Rail
		(EU) TLV: Threshold Limit Value (ACGIH)

WHMIS: Workplace Hazardous Material Information System (Canada)