

# **SAFETY DATA SHEET**

Date: Issued 19 July 2017 Version Number: AS-MSDS-OKI-03

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

1.1 Product identifier

Product Name: Oki Ribbon Cartridges

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

Identified use(s):

Oki Dot Matrix Printers

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

Aster Graphics Company Limited

No. A22-23, Bld. D1, Phase VIII, New Town, Agile Garden

Sanxiang, Zhongshan, Guangdong

528463 China

Telephone: +86 (0)760 86331988

E-Mail (competent person): EU: <u>europe@goaster.com</u>

US: usasales@goaster.com

.4 Emergency telephone number CHEMTREC

Emergency Phone No. (24 hours) EU: Tel +31 77 737 0091

US: Tel (562) 404-9315

# **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 Label elements Label elements according to EU Directive 1272/2008/EC: None

2.3 Other hazards 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
Pigments	Confidential	not applicable	4~7	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

4.3 Indication of any immediate medical attention and special treatment needed

If symptoms persist, obtain medical attention.

Treat symptomatically.

### **SECTION 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

Flammable

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

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective

equipment and emergency

procedures

Avoid generation of dust. Do not breathe dust.

A suitable dust mask or dust respirator with filter type A/P may be

appropriate

6.2 Environmental precautions Prevent substance entering sewers. Washings must be prevented from

entering surface water drains.

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.

**SECTION 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 Ribbon for OKI Dot Matrix Printers, multifunction devices and fax receivers. The cartridge should be used as supplied by Aster

and for use in the products stated.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Control parameters

Occupational Exposure Limits:

Substance	CAS No.	OSHA PEL	ACGIH TLV	EU IOELV
Pigments	Confidential	3.5 mg/m3TWA	3 mg/m3TWA	None.
Paraffin Wax	8002-74-2	None.	2 mg/m3 TWA	None.

Additional 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

Personal Protection

Specific Gravity:

Good general ventilation should be sufficient under normal use.

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 Respirator
Other: Not applicable.

No data.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Appearance (20 0C): Solid, Powder. Color: black Odor: Odorless. Boiling point/boiling range ( $^{\circ}$ ): Not applicable. Melting point ( $^{\circ}$ ) / Freezing point ( $^{\circ}$ ): No data. Vapor pressure (Pascal): Not applicable. Not applicable. pH (Value): Viscosity (mPa. s): Not applicable. Not applicable. Flash point (°C): Explosive limit ranges: No data. Explosive properties: Flammable

Vapor density (Air=1):

Partition coefficient (n-Octanol/water):

Relative Evaporation Rate (Butyl Acetate = 1):

Oxidising properties:

Solubility (Water):

No data.

Negligible.

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

Contains: Carbon monoxide, Carbon dioxide and Nitrogen oxides.

Product(s)

### **SECTION 11: TOXICOLOGICAL INFORMATION**

11 Information on toxicological effects

Acute toxicity:

Ingestion: Acute LD50 > 2000mg/kg (Method: OECD#420)

Inhalation: Acute LC50 > 3.4mg/l (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)

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.

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**

13 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 None.
14.2 Proper Shipping Name None.
14.3 Transport hazard class(es) None.
14.4 Packing Group None.
14.5 Environmental hazards None.
14.6 Special precautions for user None.

14.7 Transport in bulk according to Annex II Not applicable.

of MARPOL73/78 and the IBC Code

# **SECTION 15: REGULATORY INFORMATION**

15.1 Safety, health and environmental EU: Not classified as dangerous for supply/use. regulations/legislation specific for (1272/2008/EC) Hazard Symbol, Risk Phrases,

the 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 Chemical Safety Assessment No.

### **SECTION 16: OTHER INFORMATION**

Hazard Symbol: None.
Risk Phrases: None.

The following sections contain revisions

or new statements: All Sections.

Additional information: 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).

References: 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

Abbreviations:

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

RID: Regulations concerning the International carriage of goods by Rail (EU) TLV: Threshold Limit Value (ACGIH)

TSCA: Toxic Substances Control Act (US)

WHMIS: Workplace Hazardous Material Information System (Canada)