

# **Material Safety Data Sheet**

1/3

MSDS No.: TN152-00YW Date Revision 2006.09.14

# 1. PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

:OKI Europe Ltd

Address

:1 OKI Way, Wardpark North Cumbernauld, Scotland, G68 0FQ Telephone Number: +44 1236 502502

**Product Name** 

# B930 Toner(Black)

# 2. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Nature:

Chemical Name	Ingredients (% by wt.)	CAS Registry Number
Stylene/acrylate copolymer	75 – 85	
Polyolefin wax	1 – 10	
Carbon Black	1 – 10	1333-86-4
Amorphous silica	1 – 10	
Titanium dioxide	1 – 10	

UN Hazard Class: None UN Number: None

## 3. HAZARDOUS IDENTIFICATION

Physical and Chemical Hazard: There are no significant hazards associated with this product. Adverse Human Health Effects: There are no significant hazards associated with this product. Environmental Effects: There are no significant hazards associated with this product.

#### 4.FIRST-AID MEASURES

Eye contact : Flush with a large amount of water for at least 15 minutes. Seek medical advice.

Skin contact : Wash with soap and water.

Inhalation : Remove from exposure and provide fresh air. Rinse mouth with water.

Ingestion : Rinse mouth with water. Give several glasses of water to drink and seek medical advice.

MSDS No: TN152-00YW 2/3

#### 5. FIRE-FIGHTING MEASURES

Specifid method : In case of fire use extinguishing media.

When in a machine, treat as an electrical fire.

Extingishing media : Water spray, Foam, Dry chemicals, CO<sub>2</sub>

# **6.ACCIDENTAL RELEASE MEASURES**

Shut off ignition sources. For small spills, sweep up or soak up with damp cloth.

For large spills, wear proper protective equipment and place waste material in closed container.

Dispose of in accordance with federal, state and local regulations.

#### 7.HANDLING AND STORAGE

Handling : Do not incinerate toner or a toner cartridge. Do not dissemble a cartridge. Storage : Keep in cool, dry and well-ventilated area. Keep out of reach of children.

#### 8. EXPOSURE CONTROL /PERSONAL PROTECTION

Control Parameter

ACGIH TLV (2006) :  $10 \text{ mg/m}^3 \text{ (Total)}$ 

3 mg/m<sup>3</sup> (Respirable)

Precautionary Mesured : None required when used as intended in OKI equipment.

For use other than normal customer operating procedures(such as in bulk toner

processing facilities), local exhaust ventilation may be required.

Personal Protective Equipment: None required when used as intended in OKI equipment.

For use other than normal customer operating procedures(such as in bulk toner processing facilities), protective glove, goggles and respirators may be required.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor: Black Powder / Faint Odor

Boiling Point(OC): Not applicable Vaper Pressure: Not applicable Volatile (%): Not applicable Softening Point: 85-100°C Specific Gravity(H<sub>2</sub>O=1): 1 Initial Boiling Point: Not applicable

Solubility in water: Negligible Other Data: None

#### 10.STABILITY AND REACTIVITY

Flash Point(OC) :Not applicable Auto-Ignition Temperature:Not applicable

Explosion Limit :Not applicable

Flammability: Not flammable under conditions of use Spontaneous Combustibility / Reactivity with water: None Self-reactivity / Explosive: None

Dust Explosive : Like most organic materials in powder form, it can form explosive mixtures when dispersed in

air.

Stability and Reactivity :Stable Other Data :None

3/3 MSDS No: TN152-00YW

#### 11. TOXICOLOGICAL INFORMATION

Skin Corrosive : None

: Not an irritant 1) Eye Irritant (rabbit): Not an irritant 1) Skin Irritant (rabbit)

: Not available 1) Human Patch

: Skin (guinea-pig) : Not a sensitizer 1) Sensitization

Swallowed LD50 (rat) :  $> 5000 \text{ mg/kg}^{1) (1)}$ Acute Toxicity (practically non-toxic)  $> 5000 \text{mg/kg}^{1)}$ Skin LD50 (rabbit)

(practically non-toxic)  $> 4.1 \text{mg/L/4hr}^{1)}$ Inhaled LC50 (rat) (practically non-toxic)

Chronic Toxicity : The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m3) exposure level (i.e. the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of the animals at the middle (4mg/m3) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m3) 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 EPA testing protocol. The test toner was ten times more respirable than commercially available Xerox toner, and would not be functionally suitable for Xerox equipment.<sup>1)</sup>

: Carbon Black is classified as "Group 2B(possibly carcinogenic to humans)" by IARC. But we obtained the results from a Chronic Toner Inhalation Study, that commercially available Xerox toner has no evidence of human carcinogens. All other ingredients are not classified as "Carcinogens ref.1".

Mutagenicity: Ames Assay: Negative

Reproduction and Development: Not classified as "Reproductive and Development chemicals ref.2".

1) This information is based on toxicity data for similar materials and ingredients.

#### 12. ECOLOGICAL INFORMATION

Biodegradability : Not available. Bioaccumulation : Not available.

Acute Toxicity : 96hours LC 50  $:>500 \text{mg/L}^{1)}$ (practically non-toxic)

48hourd EC50(daphnia magna) :  $> 100 \text{mg/L}^{1}$ (practically non-toxic)

Other Information: None

This information is based on toxicity data for similar materials and ingredients.

# 13.DISPOSAL CONSIDERATION

Dispose of in accordance with national and local regulations.

#### 14.TRANSPORT INFORMATION

Transport in accordance with national and local regulations.

## 15.REGULATORY INFORMATION

Ensure this product in compliance with national requirements and ensure conformity to local regulations.

# **16.OTHER INFORMATION**

The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.

#### References

IARC Monographs on the Evaluation Carcinogenic Risks to Humans (WHO.International Agency for Research 1:

National Toxicology Program(NTP) Report on Carcinogens (NTP)

TLVs and BEIs (American Conference of Governmental Industrial Hygienists)

Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)

Journal of Occupational Health(Japan Society for Occupational Heatth)

2: Council Directive 67/548/EEC on the approximation of the laws, regulations, and administratives provisions relating to the classification, packing and labelling of dangerous substances; Annex 1 (EU)