

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

Developing Powder, IW Powder

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

Forensics - to develop shoeprints and intended writing. Professional use only.

### 1.3 Details of the supplier of the safety data sheet

Kjell Carlsson Innovation

Rinkebyvägen 18

172 37 Sundbyberg

Sweden

+46 (0) 8 28 07 84

[kjell@carlssoninnovation.se](mailto:kjell@carlssoninnovation.se)

[www.carlssoninnovation.se](http://www.carlssoninnovation.se)

### 1.4 Emergency telephone number

+46 (0) 8 28 07 84 (Office hours)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product is not classified hazardous according to EU Directive 1999/45/EG

#### *EU Regulation 1272/2008*

Eye irrit. 2

H319 Causes serious eye irritation

### 2.2 Label elements

#### *According to 1999/45/EC*

S22 Do not breathe dust

S25 Avoid contact with eyes

### 2.3 Other hazards

There is a risk of dust explosion, if the powder is finely dispersed in air.

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

Eye exposure may cause a slight transient irritation.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

| Hazardous components                |              | Classification <sup>1</sup>   | %   |
|-------------------------------------|--------------|---|-----|
|                                     |              | 67/548/EEG / Self classified<br>1272/2008 / Self classified                                 |     |
| CAS: 1333-86-4<br>EINECS: 231-609-9 | Carbon black | Not classified / Xn; R20, R36/37<br>Not classified / Eye irrit. 2, H319; Acute tox. 4, H332 | <15 |

#### Other components

Polyester resin, Wax, Titan dioxide

1) See explanations in section16

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### **Inhalation**

Fresh air.

Rinse mouth with water.

##### **Skin contact**

Wash the skin with soap and water.

##### **Eye contact**

Remove contact lenses.

Rinse the eyes with water for 5 minutes.

##### **Ingestion**

Rinse mouth with water.

If larger quantities have been ingested, give a couple of glasses of water to drink.

#### 4.2 Most important symptoms and effects, both acute and delayed

##### **Inhalation**

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

##### **Eye contact**

Eye exposure may cause a slight transient irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

##### **Ingestion**

Contact a doctor if larger quantities have been swallowed.

##### **Eye contact**

Go to hospital or contact an eye doctor if symptoms appear and persist.

### SECTION 5: Firefighting measures

The product is not flammable.

#### 5.1 Extinguishing media

Use suitable extinguishing media dependent on what is on fire in the vicinity, CO<sub>2</sub>, dry chemicals, foam or water.

#### 5.2 Special hazards arising from the substance or mixture

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

**5.3 Advice for firefighters**

Hot product may scatter and cause burns.

**SECTION 6: Accidental release measure****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid breathing dust.

**6.2 Environmental precautions**

Sweep up larger releases and hand over to waste management.

Prevent release to sewer and watercourses.

**6.3 Methods and material for containment and cleaning up**

Remove sources of fire before cleaning up.

Sweep up the powder slowly and put in a container. Clean remainder with a wet cloth.

**6.4 Reference to other sections**

See section 8 and 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Avoid breathing dust.

Avoid contact with skin and eyes.

Do not eat or drink when using the product.

Wash hands after use.

Keep away from sources of ignition.

Do not handle in areas where there is a wind or draught.

**7.2 Conditions for safe storage, including any incompatibilities**

Store separate from food.

Keep in original container.

Store in closed containers in a dry area.

The temperature should not exceed 35 °C for longer periods.

Avoid direct sunlight.

**7.3 Specific end use(s)**

Forensics - Professional use only.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

National limit values in Sweden (AFS 2005:7)

| Compound                       | Threshold limit value mg/m <sup>3</sup> |
|--------------------------------|---|
| Dust, inorganic<br>- inhalable | 10                                      |
| - respirable                   | 5                                       |
| Titan dioxide<br>- total dust  | 5                                       |

**8.2 Exposure controls**

Avoid raising dust.

Wash your hands after use.

***Personal protection***

Use vinyl or rubber gloves when needed.  
Use protective glasses if dust is formed.

***Environmental exposure controls***

See section 13.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

|              |                  |
|--------------|------------------|
| Appearance   | Black powder     |
| Flammability | Not flammable    |
| Odor         | slightly plastic |

### **9.2 Other information**

The product will soften above 110 °C.  
Insoluble in water.  
Slightly soluble in chloroform.

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

Not liable to react during normal conditions.

### **10.2 Chemical stability**

Stable during normal conditions.

### **10.3 Possibility of hazardous reactions**

There is a risk of dust explosion, if the powder is finely dispersed in air.

### **10.4 Conditions to avoid**

No known.

### **10.5 Incompatible materials**

No known.

### **10.6 Hazardous decomposition products**

No known.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

***Compounds***

Carbon black and titanium dioxid – Oral and skin tests, does not show carcinogenity.  
Carbon black – chronic inhalation exposure in rat did not show carcinogenicity.

***Mixture***

Acute oral toxicity – LD<sub>50</sub> rat over 5000 mg/kg

Non irritant.

Mutagenicity – Negative (Ames test)

Exposure to excessive amounts of powder may cause damage to lungs. However, normal use and handling of this product as intended, does not result in inhalation of excessive amounts of powder.

Likely routes of exposure – inhalation, skin and eyes.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

No information.

### **12.2 Persistence and degradability**

No information.

### **12.3 Bioaccumulative potential**

No information.

### **12.4 Mobility in soil**

No information.

### **12.5 Results of PBT and vPvB assessment**

No information.

### **12.6 Other adverse effects**

No known.

## **SECTION 13: Disposal considerations**

Discarded product is not classified as hazardous waste according to Swedish regulation SFS 2001:1063 and EU Directive 2008/98/EC

EWC codes

08 03 18 waste printing toner other than those mentioned in 08 03 17

### **13.1 Waste treatment methods**

Do not pour the product in the sewer.

Do not throw the product into open flames. Hot product may scatter and cause burns.

Contact the local waste management before discarding the product.

See additional regulations in EU Directive 2008/98/EC.

## **SECTION 14: Transport information**

The product is not classified Dangerous goods according to ADR.

### **14.1 UN number**

Not relevant.

### **14.2 UN proper shipping name**

Not relevant.

### **14.3 Transport hazard class(es)**

Not relevant.

### **14.4 Packing group**

Not relevant.

### **14.5 Environmental hazards**

Not relevant.

### **14.6 Special precautions for user**

Not relevant.

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

## SECTION 15: Regulatory information

The product is not classified hazardous according to EU Directive 1999/45/EG.

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ADR – European Agreement Concerning the International Carriage of Dangerous goods by Road.

AFS 2005:17 - Hygieniska gränsvärden och åtgärder mot luftföroreningar – *Occupational limit values in Sweden.*

### 15.2 Chemical safety assessment

No Chemical Safety Report is available for the product.

## SECTION 16: Other information

This product complies with all applicable rules and regulations under TSCA.

### References

Data from the manufacturer

Chemical Substances – database on the Internet [http://kemi.prevent.se/default\\_eng.asp](http://kemi.prevent.se/default_eng.asp)

### Explanations to hazard codes, risk phrases and hazard statements

|              |  |
|--------------|--|
| Xn           | Harmful  |
| R20          | Harmful by inhalation                                |
| R36/37       | Irritating to eyes and respiratory system            |
| Eye irrit. 2 | Serious eye damage/eye irritation, Hazard Category 2 |
| Acute tox. 4 | Acute toxicity (inhal.), Hazard Category 4           |
| H319         | Causes serious eye irritation                        |
| H332         | Harmful if inhaled                                   |

### Advice for workers

See section 8.

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