

Material Safety Data Sheet

Date prepared: 08/08/2001 **Version:** 1.0 - English
Product name: **IW-POWDER**



1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Identification of the substance:
Commercial Product name: IW-Powder (Indented Writing-powder)
Use: Forensic use
EVIDENT, INC.
739 BROOKS MILL RD
UNION HALL, VA 24176
540-576-3512 contact@evident.cc
www.EvidentCrimeScene.com

Company / undertaking identification:
Manufacturer / distributor: Kjell Carlsson Innovation
Street / POB.no: Rinkebyvägen 18
State / postal code / city: S-17237 Sundbyberg
Contry: Sweden
Telephone: +46 8 280784
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Web: www.carlssoninnovation.se

2. COMPSITION / INFORMATION ON INGREDIENTS

CAS number:	Chemical name:	Conc %
Confidential	Polyester Resin	> 80
1333-86-4	Carbon black	< 15
8015-86-9	Carnauba Wax	< 10

Components contributing to the Hazard
Applicable for it mentioned below
Their Chemical or Generic Name/Their Concentration or Concentration Range
Not relevant

3. HAZARDS IDENTIFICATION (Most Important Hazard)

Adverse Human Health Effects
Not applicable in normal use.

Carcinogenicity
Carbon Black was reclassified as a Group 2B by IARC in 1996 based on the result of only the inhalation study in rats. However, there was not observed the incidence of tumors on the test results on dermal or oral studies. In addition, 2-years inhalation study using a typical toner containing carbon black showed no association between toner exposure and animal tumors.

Environmental Effects
Not applicable in normal use.

Physical and Chemical Hazards
Not applicable in normal use.

The Classification of the Chemical Product
Not applicable

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4. FIRST AID MEASURES

INHALATION

Gargle with water; move to place in fresh air. If unsuccessful, get medical attention.

SKIN CONTACT

Wash thoroughly with soap and water.

EYE CONTACT

Try to remove with eye drops or flush with water. If unsuccessful, get medical attention.

INGESTION

Dilute stomach contents with several glasses of water. If unsuccessful, get medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

CO₂, dry chemicals, foam or water

SPECIFIC METHOD

Generally by sprinkling or extinguisher

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Minimize inhalation of dust.

ENVIRONMENT PRECAUTIONS

Keep product out of sewers and watercourses

METHODS FOR CLEANING UP

If spilled, sweep up or pick up by vacuum cleaner (rated for toner extraction). Remove residue with soap and water.

7. HANDLING AND STORAGE

HANDLING (technical measures, precautions, safe handling material)

Do not handle in areas where wind blows.

Flying powder may enter eyes.

Minimize breathing dust.

STORAGE (technical measures, storage conditions, packaging material)

Avoid direct sunlight.

Do not keep this over 35 °C

Keep out of reach of children.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PREVENT MEASURES:

No special ventilation is generally required. Avoid breathing dust.

RESPIRATORY:

Wear approved dust respirator if exposures exceed the Threshold Limit Values (TLV) for dust, carbon black.

EYE PROTECTION:

None required under normal conditions of use.

HAND PROTECTION:

Protective gloves. Wear chemical resistant gloves such as: Natural latex, PVC, Nitrile rubber (NBR).

SKIN PROTECTION:

Wear protective clothing if necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Form: Powder
Color: Black
Odor: Slight plastic odor

Information

pH	: not applicable	Measuring Temp.(°C) :-
Boiling Point(°C)	: not applicable	
Flash Point(°C)	: not applicable	
Explosion Properties (°C)	: This product is considered a non-explosive material under normal use condition.	
Vapor Pressure(Pa)	: not applicable	Measuring Temp.(°C) :-
Vapor Density(AIR=1)	: not applicable	
Density (g/cm ³)	: approx. 1.2	Measuring Temp. (°C) : 25

Solubility

Water Solubility(g/L)	: Insoluble
Water Solubility Measuring Temp. (°C)	: 25
Other Solvent name	: -
Other Solvent Solubility(g/L)	: -
Other Solvent Solubility Measuring Temp. (°C) :-	

Octanol/Water Partition Coefficient

Not known

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:

Not applicable in normal use.

MATERIALS TO AVOID:

Not applicable in normal use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Acute Oral Toxicity	: Rat: 5000mg/kg
Acute Dermal Toxicity	: not available
Acute Inhalation Toxicity	: not available

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SENSITIZATION:

Acute Skin Irritation : None irritant
Acute Eye Irritation : not applied
Acute Allergenic Effects: : no applicable information was found

SPECIFIC EFFECTS:

Carcinogenicity

In 1996, IARC reevaluated Carbon Black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter 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 have not demonstrated an association between carbon black and lung tumors. Moreover, 2-years cancer bioassay using a typical toner preparation containing carbon black did not demonstrate an association between toner exposure and tumor development in rats.

Mutagenicity:

Negative (Ames test)

Effects on the Reproductive System:

No data is available on this product.

Teratogenic

Not available

12. ECOLOGICAL INFORMATION

Persistence/Degradability: not known
Bio-accumulation not known in bio-accumulation
Ecotoxicity
Acute Toxicity for Fish not available (mg/kg/96hr)
Acute Toxicity for Daphnia: not applicable (mg/kg/48hr)
Algae Inhibition Test: not applicable (mg/kg/72hr)

13. DISPOSAL CONSIDERATIONS

RECOMMENDED METHODS FOR SAFE ENVIRONMENTALLY PREFERRED DISPOSAL:

Used toner should be disposed of in an environmentally appropriate manner and in accordance with governmental regulations. Do not incinerate.

14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS:

RID/ADR: not applicable
DOT 49 CFR: not applicable
ADNR not applicable
IMDG Code not applicable
ICAO-TI/IATA-DGR not applicable
The UN Classification Number not applicable

SPECIFIC PRECAUTIONARY TRANSPORT MEASURES:

Avoid direct sunlight.
Do not keep this over 35°C.

SPECIFIC MATERIALS TO AVOID:

None in normal use.

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15. REGULATORY INFORMATION

REGULATIONS:
Not known

16. OTHER INFORMATION

Information is most current known to Kjell Carlsson Innovation at the time of preparation and is believed to be accurate. However no warranties are made with respect to this information and Kjell Carlsson Innovation assumes no liability resulting from use. Make independent determinations of the suitability and completeness of information from all sources, to assure proper use and disposal of this product and personnel safety and health. Data for each component is specified where applicable as mixtures have not been tested.

References:

- 1) IARC (1996): "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds", Lyon, pp149-261
- 2) H. Muhle, B. Bellman, O. Creutzenberg, C. Dasenbrock, H. Emst, R. Kilpper, J.C. MacKenzie, P. Morrow, U. Mohr, S. Takenaka and R. Mermelstein(1991): "Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats", Fundamental and Applied Toxicology 17, pp280-299