

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product: toner used to fill OB-TN3030BK cartridge

Supplier: Supplies Team

Address: Sheffield Airport Business Park, Europa Link, Sheffield, S9 1 XU

Information Phone: 0114 256 6000

2. HAZARDS IDENTIFICATION

Skin contact: Essentially non irritating to skin

Skin absorption: Skin absorption is unlikely due to physical properties

Eyes: Solid or dusts may cause irritation.

Ingestion: Oral toxicity is believed to be low

Inhalation: Minimal irritation to respiratory track may occur.

Carcinogenicity: Carbon Black is reclassified as a group 2B by the IARC, but inhalation test using a typical toner showed no association between toner exposure and animal tumors.

Medical Conditions Aggravated By Long-Term Exposure: the preparation is not dangerous in the sense of guideline 1999/45/EC

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Wt%
Polystyrene- Acrylate copolymer	Trade secret	>81.0
Carbon Black	1333-86-4	<6.0
Organic pigment	8005-02-5	<5.0
Polypropylene	9010-79-1	<3.0
Amorphous silica	Trade secret	<2.0
Iron oxide	1317-61-9	<3.0

4. FIRST AID MEASURE

Eyes Contact: Flush eyes immediately with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: Wash affected area thoroughly with soap and water. If irritation persists, consult a physician.

Ingestion: No adverse effects anticipated by this route of exposure incidental to proper handling.

Inhalation: Move to fresh air immediately. If symptoms occur, consult a physician.

5. FIRE FIGHTING MEASURES

Flash Point and Method: N.A.

Flammable Limits: N.A.

LEL: N.A.

UEL: N.A.

Fire Extinguishing Media: Foam, CO2, dry chemical.

Fire-Fighting Equipment: Wear full bunker gear including a positive pressure self-contained breathing apparatus in case of burning in large quantities.

6. ACCIDENTAL RELEASE MEASURES

Minimize the release of particulates. Wear personal protective equipment. Do not use vacuum cleaner.

After by lightly spraying with water to prevent development of dust, spills should be swept up or wiped up.

Then residuals can be removed with soap and water. Preferred to use the material in a place, covering up the floor and surrounding matters with suitable sheets such as paper, in a case of being not fit to scrub the floor

with water. These used sheets should be wrapped up in spills and transfer into a suitable container for disposal. Garments may be washed or dry cleaned, after removal of loose toner.

7. HANDLING AND STORAGE

Avoid creating dust. Clean up all spills promptly.

Provide general ventilation. Good general ventilation should be sufficient for most conditions.

Handling Precaution: Keep containers closed at all times. Avoid creating dust. Keep away from ignition sources.

Storage Requirements: Store at room temperature. Keep away from strong oxidizers.

Regulatory Requirements: N.A.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

OSHA PEL: TWA 10mg/m³ (Inert of Nuisance Dust: Respirable fraction).

15.0mg/m³ (Inert of Nuisance Dust: Total dust).

ACGIH TLV: TWA (2001).

3mg/m³ (Particulates Not Otherwise Classified: Respirable Particle Mass).

10mg/m³ (Particulates Not Otherwise Classified: Inhalational Particle Mass).

Respiratory Protection: In dusty atmospheres, use an approved dust respirator.

Skin Protection: No precautions should be needed under normal use.

Eye Protection: No precautions should be needed under normal use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Black fine powder.

Odour: None.

Boiling Point: N.A.

Vapor Pressure: N.A.

Vapor Density (Air= 1) : >1

Solubility in Water: Insoluble.

Melting Point: N.A.

Specific Gravity (H₂O=1): 1.2

PH: N.A

% Volatile: N.A

10. STABILITY & REACTIVITY

Stability: This is a stable product.

INCOMPATIBILITY: (Material to Avoid): Oxidizing materials.

Hazardous Decomposition Or Byproducts: Carbon oxides, hydrocarbons (by high heat and fire).

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Mutagenic effects: Negative, (Estimated from the data of constituent components).

Carcinogenic effects:

In 1996, the 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 developer of lung tumors in rat 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 toner exposure and tumor development in rats. Moreover, a two year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

In a study in rats (H.Muhle) by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the concentration (16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m³) exposure group, the most relevant level to potential human exposures.

12. ECOLOGICAL INFORMATION

No Data Given.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Small quantities should be disposed of in accordance with applicable federal state and/or local regulations.

For large quantities, destruction by approved incineration is recommended.

14. TRANSPORTATION INFORMATION

Transport Information: this is not a hazardous product

UN No: None allocated

15. REGULATORY INFORMATION

This product is not regulated as a hazardous substance.

TSCA: All chemical substance in this product comply with all applicable rules and orders under TSCA

EU: This product is not classified as a dangerous preparation acc. To European Directives 67/548/EEC and 1999/45/EC for the classification, packaging and labelling of dangerous substances and preparations.

This product does not require labelling in sense of the guideline 1999/45/EC. Please observe the safety information of this safety data sheet.

Organic pigment is regards as mixtures make up two (constituents CAS NO.101357-15-7 and CAS NO.65997-04-8).

One of chemical substance in this product contained than is treated as a new chemical.

16. OTHER INFORMATION

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product as contained within an laser cartridge and used according to normal usage, doesn't present environmental or health risks. The laser should not be treated in such a way as no toner spill into the environment without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of this product are outside the supplier's control, the user is responsible for ensuring that requirements of relevant legislation are complied with.

The information contained herein is for health and safety guidance only and does not constitute a specification. It is, to the best of our knowledge and belief, accurate. However since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the end user to comply with all applicable laws and regulations.

Nothing contained herein is to be construed as a recommendation for use in violation of any patents or of applicable laws or regulations.

References:

IARC (1996) IARC Monographs 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, pp 149-261

