



SAFETY DATA SHEET

1	IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
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Product name: IBM 3160 Black Developer

Product No.: 1402681, 14H7710

Synonyms: Company Chemical No.: 901054570

Supplier:

InfoPrint Solutions United Kingdom Limited
Ricoh House, 1 Plane Tree Crescent
Feltham, Middlesex TW13 7HG
United Kingdom
www.infoprint.com/uk

Emergency telephone:

1-760-476-3961; Access code: 333114

Intended use: Developer for use in InfoPrint printers

Contact person:

msdsinfo@infoprint.com.

2	HAZARDS IDENTIFICATION
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This material is not considered to be hazardous according to regulatory guidelines (see Section 15).

Potential health effects

Inhalation: Respiratory tract irritation may occur with exposure to large amounts of dust.

Eye contact: Mechanical irritation of eyes.

Skin contact: Not known to InfoPrint Solutions Company as a dermal irritant or dermal sensitizer.

Ingestion: No harmful effects expected in amounts likely to be ingested by accident.

Other health effects: Chronic exposure may cause potential risk of irreversible pulmonary effects. Chronic exposure is highly unlikely when this product is used as intended.

Potential physical / chemical effects: This product is not flammable. Fine particles may form explosive mixtures with air.

Environment: No data available.

3	COMPOSITION/INFORMATION ON INGREDIENTS
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Chemical name	EC No.	CAS-No.	Concentration *	Classification	Notes
Iron oxide	215-277-5	1317-61-9	95 - 99%	-	-
Black toner	-	-	1 - 5%	-	-
Carbon black	215-609-9	1333-86-4	< 0.5%	-	-

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4 FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Get medical attention if any discomfort continues.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Skin contact: Wash skin with soap and water. Should dermal irritation or dermal sensitization occur, seek medical attention.

Ingestion: Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Inappropriate extinguishing media: None.

Special fire fighting procedures: Avoid dust formation.

Unusual fire & explosion hazards: Dust may form explosive mixture with air.

Hazardous combustion products: Carbon oxides, Nitrogen oxides

Protective measures: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear necessary protective equipment. See Section 8 for personal protective equipment.

Spill cleanup methods: Sweep or scoop up and remove. Avoid dust formation. Avoid sparks and prevent accumulation of electrostatic charges. Collect and dispose of spillage as indicated in section 13.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

Notification procedures: Inform authorities if large amounts are involved.

7 HANDLING AND STORAGE

Handling: Avoid inhalation of dust and exposure to eyes and skin. Use with adequate ventilation. Wear necessary protective equipment. See Section 8 for personal protective equipment. Observe good industrial hygiene practices.

Storage: Store in closed original container in a dry place. Keep away from heat, sparks and open flame. Store away from incompatible materials. See Section 10 for incompatible materials.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values: Make sure to provide adequate control by applying the "COSHH Essentials" procedure.

Chemical name	Source	Type	Workplace exposure limits	Notes
Carbon black	EH40/2005	STEL	7 mg/m ³	
Carbon black	EH40/2005	TWA	3.5 mg/m ³	

Engineering controls: Provide adequate ventilation.

Respiratory protection: No protection is ordinarily required under normal conditions of use and with adequate ventilation. During dust-raising work: If ventilation is insufficient, suitable respiratory protection must be provided.

Eye protection: If significant eye exposure is anticipated, the use of chemical safety goggles is recommended.

Hand protection: If significant skin exposure is anticipated, the use of protective gloves is recommended.

Skin protection: Protective clothing is not required under normal conditions.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls: Environmental manager must be informed of all major spillages.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Granule

Colour: Black

Odour: Odourless

Odour threshold: No data available.

pH: Not applicable

Melting point: No data available.

Freezing point: Not applicable

Boiling Point: Not applicable

Relative density: 5.2 (@ 20 °C (68 °F))

Vapour pressure: Not applicable

Vapour density (air=1): Not applicable

Evaporation rate: Not applicable

Solubility in water: Insoluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable

Viscosity: Not applicable

Volatile organic compounds (VOC): Not applicable

Flash point: Not applicable

Autoignition temperature: Not applicable

Flammability limit - lower(%): No data available.

Flammability limit - upper (%): No data available.

Explosive properties: No data available

10	STABILITY AND REACTIVITY
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Stability: Stable under normal temperature conditions.

Conditions to avoid: Heat, sparks, flames.

Incompatible materials: Strong oxidising agents.

Hazardous decomposition products:

At elevated temperatures:	Carbon oxides, Nitrogen oxides, Unidentified organic compounds
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Possibility of hazardous reactions: Will not occur.

11	TOXICOLOGICAL INFORMATION
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Specified substance(s)

Acute toxicity:

Chemical name	Test results
Carbon black	Oral LD50 (Rat): >15400 mg/kg
Carbon black	Dermal LC50 (Rabbit): >3000 mg/kg

Inhalation: Low acute inhalation toxicity. As with exposure to high concentrations of any dust, irritation of the respiratory tract may occur. Persons with certain pre-existing upper respiratory disorders, such as bronchitis or asthma have an increased risk of irritation.

Eye contact: Mechanical irritation of eyes.

Skin contact: Not known to be a dermal irritant or sensitizer.

Ingestion: No harmful effects expected in amounts likely to be ingested by accident.

Sensitisation: None known.

Carcinogenicity: Pure carbon black is not classified as hazardous when bound in toner polymers.

Listed carcinogens:

Chemical name	IARC	NTP	OSHA	ACGIH
Carbon black	2B	Not listed	Not listed	A4

IARC: 1 = Carcinogenic to Humans; 2A = Probably Carcinogenic to Humans; 2B = Possibly Carcinogenic to Humans; 3 = Not classifiable as to carcinogenicity to humans; 4 = Probably not carcinogenic to humans; Not listed = Not evaluated by IARC.

ACGIH: A1 = Confirmed Human Carcinogen; A2 = Suspected Human Carcinogen; A3 = Confirmed Animal Carcinogen; A4 = Not classifiable as a human carcinogen; A5 = Not suspected to be a human carcinogen; Not listed = Not evaluated by ACGIH.

Mutagenesis: No data available.

Reproductive toxicity: Not known.

Other effects: Not known.

12 ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Mobility: The product is insoluble in water.

Persistence and degradability: No data available.

Bioaccumulation potential: No data available.

13 DISPOSAL CONSIDERATIONS

General information: Dispose in accordance with applicable federal, state, and local regulations.

Disposal methods: No specific disposal method required.

European waste codes

Unused product: 08 03 18

14 TRANSPORT INFORMATION

ADR/RID Not regulated.

IMDG Not regulated.

IATA Not regulated.

15 REGULATORY INFORMATION

The product has not been classified as dangerous according to the legislation in force.

16 OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3: None

Inventory status: Not all substances are listed on EINECS.

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Supersedes date:

SDS No.: 1029628

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