



Material Safety Data Sheet

For Supply Reorder Number:

461-2

MSDS Number:	OCE 074, REV B Océ Imagistics Inc.	Issued:	June 21, 2002
		Revised:	May 31, 2005
Product Name:	Developer for DL460, DL550, im4720 and im5520 Copiers	Page:	1 of 6

SECTION I - PRODUCT IDENTIFICATION

Product Name:	Developer for DL460, DL550, im4720 and im5520 Copiers
Reorder Number::	461-2
Manufacturer:	Océ Imagistics Inc.
Address:	100 Oakview Drive
City:	Trumbull
State:	CT
Zip:	06611-4724
For MSDS copies:	203-365-7025 or "www.Imagistics.com"
Emergency/Chemtrec:	800-424-9300
Effective Date:	September 19, 2003
Print Date:	4/24/2006

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS No.	%	EXPOSURE LIMITS
Developer powder (contains a small amount of toner) (regulated as particulates not otherwise classified - PNOC)	mixture	proprietary	10 mg/m ³ , TWA (inhalable) TLV, 15 mg/m ³ TWA - PEL (Total Dust)
Carbon Black	1333-86-4	proprietary	3.5 mg/m ³ TWA TLV, 3.5 mg/m ³ TWA - PEL

Additional Information

May Contain Non-Hazardous Ingredients: Polyester resin, ferrite

SECTION III - HAZARD IDENTIFICATION

Emergency Overview:	Black powder with a faint odor. High concentrations of dust suspended in air may present a dust explosion hazard. Inhalation of dust may cause minor respiratory irritation. Prolonged inhalation overexposure may result in lung damage.
Relevant Routes of Exposure:	Skin, eyes, inhalation
Signs and Symptoms of Acute Overexposure:	May cause mild eye irritation. This product is not a skin irritant.
Signs and Symptoms of Chronic Overexposure:	Prolonged inhalation of dust in excess of the exposure limits (as with any nuisance dust) may result in lung damage. Overexposure to dust in the normal use of this product is not expected.
Medical Conditions Generally Aggravated By Exposure:	None known
Potential Health Effects:	
Eyes:	May cause mild irritation.
Skin:	No adverse effects expected.
Ingestion:	No adverse effects expected. This product is not acutely toxic by ingestion.
Inhalation:	Could be a route of exposure, but unlikely under normal use. Inhalation



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SECTION III - HAZARD IDENTIFICATION

of developer powder may cause mucous membrane and respiratory irritation. Prolonged and repeated overexposure may cause lung damage.

Carcinogenicity:

NTP:

No

IARC:

In 1996 IARC re-evaluated carbon black as a group 2B carcinogen (possible human carcinogen). Carbon black is a minor component of the total developer mixture. We believe that IARC's findings are not applicable to the typical uses and levels of exposure to toners or developers by our customers and service personnel.

OSHA:

No

ACGIH:

No

OTHER:

No

SECTION IV - FIRST AID MEASURES

Eyes:

Do not rub eyes. Immediately flush with plenty of running cool to lukewarm water, holding eye lids open to assure thorough rinsing. Get medical attention if irritation persists or for foreign body in the eyes.

Skin:

Wash with soap and water.

Ingestion:

If swallowed, dilute with water. **DO NOT** induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get medical attention.

Inhalation:

Remove person to fresh air. Wash nostrils, rinse mouth. If irritation or pulmonary symptoms develop, consult a physician.

SECTION V - FIRE FIGHTING PROCEDURES

Flammable Limits in Air (% by Volume):

Not determined

Flash Point:

Not determined

Autoignition Temperature:

Not determined

Extinguishing Media:

Water, carbon dioxide, dry chemical, or foam.

Fire Fighting Instructions:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Do not use methods that may create a dust cloud, such as high pressure water.

Unusual Fire and Explosion Hazards:

Developer powder can form explosive mixtures with air at high concentrations.

Known or Anticipated Hazardous Products of Combustion:

Emits carbon monoxide and carbon dioxide under fire conditions.

SECTION VI - ACCIDENTAL RELEASE MEASURES



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SECTION VI - ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:	Carefully sweep material onto paper, or vacuum taking care not to generate airborne dust. Do not use vacuum if large amounts are released due to risk of dust explosion.
Personal Precautions:	Avoid inhalation of dust.
Environmental Precautions:	It is recommended to keep away from drains, surface and ground water.
Methods for Cleanup:	Sweep material onto paper, or vacuum small amounts.
Large Spill:	Not sold in large quantities.
Small Spill:	Sweep material onto paper or vacuum small amounts. Avoid generating airborne dust.

SECTION VII - HANDLING AND STORAGE

Handling:	Avoid inhalation of developer dust. Avoid direct contact with developer. Keep container closed when not in use.
Storage:	Store in a cool, dry place. Keep container closed. Keep out of the reach of children.
Other Precautions:	Not required under normal use.

SECTION VIII - EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering Controls:	None required with normal use.
Ventilation Requirements:	General office ventilation.
Personal Protective Equipment:	
Eye/Face Protection:	Not required under normal use.
Skin Protection:	Not required under normal use.
Respiratory Protection:	Not required under normal use.
Other Protective Clothing or Equipment:	Not required under normal use.
Exposure Guidelines:	See Section II

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Fine black powder with a faint odor.
Boiling Point:	Not applicable
Color:	Black
Freezing Point:	No data
Melting Point:	110-125°C (Softening Point)
Octanol/Water Partition Coefficient:	No data
Odor:	Odorless
Odor Threshold:	No data
Percent Volatile:	Not applicable
pH Value:	Not applicable
pH Concentration:	Not applicable



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SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Powder
Reactivity in Water:	None
Solubility in Water:	Negligible
Specific Gravity or Density (Water=1):	3.2
Vapor Density:	Not applicable
Vapor Pressure:	Not applicable
Vapor Pressure Temperature:	Not applicable
Volatile Organic Compounds:	No data
Water/Oil Distribution Coefficient:	No data
Weight Per Gallon:	Not applicable

SECTION X - STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Avoid excessive heat and electrical discharge. Do not throw into fire.
Incompatibility With Other Materials:	None.
Hazardous Decomposition Products:	Carbon dioxide and carbon monoxide.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Not applicable

SECTION XI - TOXICOLOGICAL INFORMATION

VALUE	ANIMAL	ROUTES	COMPONENTS
LC50: > 1.93 mg/l/4 hr*	Rats	Inhalation	Product
LD50: > 2,000 mg/kg	Rats	Oral	Product
LD50: No data available		Dermal	Product

Additional Information

Note: No animal testing was performed with this specific product. The values above are derived from previous testing of products with similar composition. Similar products have been found to be negative in skin sensitization tests with guinea pigs. Similar products tested negative in the AMES test for mutagenicity.

SECTION XII - ECOLOGICAL INFORMATION

Ecological Information:	No data available
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SECTION XIII - DISPOSAL CONSIDERATIONS

Disposal Considerations:	Dispose in accordance with local, state, and federal regulations.
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SECTION XIV - TRANSPORT INFORMATION

U.S. DOT

Proper Shipping Name: Not regulated
Hazard Class: Not applicable
ID Number: Not applicable
Packing Group: Not applicable
Labels: None
Special Provisions: None
Packaging Exceptions: Not applicable
Non-Bulk Packaging: Not applicable
Bulk Packaging: Not applicable
Air/Rail Limit: None
Air Cargo Limit: None
Vessel Stowage: Not applicable
Other Stowage: Not applicable
Reportable Quantity: None

AIR - ICAO OR IATA

Proper Shipping Name: Not regulated
Hazard Class: Not applicable
ID Number: Not applicable
Risk: Not applicable
Packing Group: Not applicable
Hazard Labels: None
Packing Instructions: Not applicable
Air Passenger/Cargo Limit Per Package: Not applicable
Packing Instruction - Cargo: Not applicable
Air Cargo Limit Per Package: Not applicable
Special Provisions Code: None

WATER - IMDG

Proper Shipping Name: Not regulated
Hazard Class: Not applicable
ID Number: Not applicable
Packing Group: Not applicable
Risk: Not applicable
Emergency Procedures Code: Not applicable
Medical First Aid Guide Code: Not applicable

SECTION XV - REGULATORY INFORMATION

U.S. Federal Regulations: See below
State Regulations: This product contains no chemicals subject to California Proposition 65.
International Regulations: EU: Not classified as a dangerous material. All of the components are listed on the EINECS inventory. Canada: Not a controlled product.



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SECTION XV - REGULATORY INFORMATION

SARA Hazards:

Acute:	No
Chronic:	No
Reactive:	No
Fire:	No
Pressure:	No

Additional Information

This product does not contain chemical or chemical compounds listed in the following SARA Title III categories: Extremely Hazardous Substances (302), Toxic Chemical Release Reporting (313). All the components of this product are listed in the EPA TSCA Inventory.

SECTION XVI - OTHER INFORMATION

NFPA Codes:

Health:	1
Flammability:	1
Reactivity:	0
Other:	0

HMIS Codes:

Health:	1
Flammability:	1
Reactivity:	0
Protection:	

Other Information: Keep out of reach of children.