



PN 1TTNH, 3J11D, 2MMJP

Dell Laser Printer 1133 Toner Cartridge

Material Safety Data Sheets are not required for print cartridges. For customer convenience, Dell provides product information in this familiar format.

Section 1 - Product and Company Identification

Product Name: Dell Laser Printer 1133 Toner Cartridge
Product ID:
Chemical Family: Toner Cartridge
Application: Dell Laser Printer 1133
Prepared By: Product Environmental Programs

Manufacturer: Dell Inc. One Dell Way
Round Rock, TX 78682

Information: 1-800-WWW-DELL
Emergency: 1-800-833-6616

Section 2 - Composition / Information on Ingredients

SUBSTANCE/MIXTURE :	Mixture
CHEMICAL NAME:	Black Toner
(GENERIC NAME)	Not Specified
CHEMICAL FORMULA	
Ingredients	
Polyester Resin:	Percent (wt.) 85-95 CAS Number Confidential
Waxes:	1-5 Confidential
Carbon black:	2-6 1333-86-4
Organic Pigment	<2 Confidential
Silica:	1-5 Confidential
Others:	<2 Confidential
CAS RN	Confidential
UN No:	Not Applicable
EINECS:	Yes (Some of ingredients are in ELINCS)
TSCA	All of ingredients are registered

Section 3 - Hazards Identification

FIRE AND EXPLOSION HAZARD: May cause risk of dust explosion

POTENTIAL HEALTH EFFECTS: To best of our investigation. No special hazards have to be

ENVIRONMENTAL EFFECTS: To the best of our investigation. No special hazards have to be.

PHYSICAL AND CHEMICAL HAZARDS: May cause risk of dust explosion.

Section 4 - First Aid Measures

IN CASE OF EYE CONTACT: Immediately hold eyelids open and flush with stream water for at least 15 minutes. If necessary seek, medical attention.

IN CASE OF SKIN CONTACT: Wash material off the skin with plenty of water and soap. If necessary seek medical attention.

IN CASE OF INHALATION: Remove person to fresh air. If necessary seek medical attention.

IN CASE OF INGESTION: Seek medical attention. Never give anything by mouth to an unconscious person. If possible, rinse out mouth and give one or two glasses of water or milk to drink.

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Section 5 - Fire Fighting Measures

EXTINGUISHING MEASURES:	Risk of producing harmful gasses as carbon monoxide and nitrogen oxides. Avoid inhalation of smoke or gases.
EXTINGUISHING AGENTS:	In case of small fire, use powder, carbon dioxide. In case of large fire, shut off air By spraying with water or foam.
SPECIAL METHODS*	Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.
PROTECTION OF FIREFIGHTERS:	Wear full bunker gear including a positive pressure self-contained breathing apparatus in case of burning in large quantities.

Section 6 - Accidental Release Measures

IN CASE OF SPILL/ METHODS OF CLEANING UP:	Prevent dispersion of dust. Sweep or vacuum material immediately by dust-explosion-proof type cleaner. Then wipe remainder in waste cloth.
PERSONAL PRECAUTIONS:	Use mask, goggles and protective gloves and wear personal protective equipment. Large spill: Remove person to safety. Ensure adequate ventilation. Treat from upwind position.
ENVIRONMENTAL PRECAUTIONS:	Do not discharge into the drains, surface waters or ground water directly.
PREVENTION OF SECONDARY HAZARDS	No information available

Section 7 - Handling and Storage

HANDLING:	Fight fire from upwind position. Avoid inhalation of dust. Prevent generation of dust. Avoid inhalation of fine dust.
SAFE HANDLING ADVICE:	Handle in well-ventilated areas. Use safety glasses and protective gloves as appropriate to situation. Wash hands and face and gargle after handling. Prevent generation of dust. This material may cause risk of dust explosion.
STORAGE:	Keep container tightly closed. Protect from sun. Store in a well-ventilated cool room(Under 40°C)

Section 8 - Exposure Controls / Personal Protection

ENGINEERING MEASURES:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation. Use local exhaust ventilation, in case of generation of dust.
ACGIH(TLV):	TWA (2005) 3.0mg/m3(Particulates not otherwise classified : Respirable particle mass) 10.0mg/m3(Particulates not otherwise classified : Inhalable particle mass)
OSHA(PEL)	TWA 5.0mg/m3(Inert of nuisance dust : Respirable fraction) 15.0mg/m3(Inert of nuisance dust : Total dust)
PROTECTIVE MEASURES RESPIRATORY PROTECTIVE EQUIPMENTS:	Dust respirator, dust mask, as appropriate to situation
EYE PROTECTION:	Safety glasses with side shield (Safety goggles or face shield)
HAND PROTECTION:	Rubber gloves
PROTECTIVE CLOTHINGS:	Full body suit in an appropriate situation.

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Section 9 - Physical and Chemical Properties

APPEARANCE:	Black powder
ODOR:	Odorless
BOILING POINT	N.A (Not applicable)
VAPOR PRESSURE	N.A
VAPOR DENSITY	N.A
VOLATILITY:	No data available
MELTING/FREEZING POINT	No data available
DENSITY	1.2g/mL (20 °C, 68 F)
SOLUBILITY	
WATER SOLUBILITY	Negligible
SOLVENT SOLUBILITY	Part of component is soluble in toluene, chloroform and tetra hydrofuran
pH:	No data available
VISCOSITY:	No data available
OCTANOL/WATER PARTITION	No data available
COEFFICIENT:	
OTHER INFORMATION:	None

Section 10 - Stability and Reactivity

STABILITY	Stable in general
FLASH PONT:	Not applicable
AUTOIGNITION TEMPERATURE:	No data available
EXPLOSIVE LIMIT IN AIR(LEC):	No data available
EXPLOSIVE LIMIT IN AIR(UEC):	No data available
COMBUSTIVITY:	YES
OXIDIZABILITY:	No
SELF-REACTIVITY/ EXPLOSIVITY	This material may cause risk of dust explosion.
REACTIVITY AND STABILITY	Stable in general
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:	No data available
OTER INFORMATION:	None

Section 11 - Toxicological Information

CORROSIVITY	No data available
SKIN IRRITATION:	No data available
EYE IRRITATION:	No data available
SKIN SENSITIZATION:	No data available
ACUTE TOXITY:	No data available
SUBCHRONIC EFFECTS:	No data available
CHRONIC EFFECTS:	No data available
CARCINOGENICITY:	
INFORMATION OF PRODUCT	No data available
INFORMATION OF INGREDIENTS	Carbon black:Category 2 ; Ref.(1)
IARC:	Group 2B: Possibly carcinogenic to humans.
NTP:	None of this product's components are listed.
OSHA:	None of this product's components are listed.
MUTAGENICITY (GERM CELLMUTAGENICITY):	Ames Test : Negative
REPRODUCTIVE EFFECTS:	No data available
TERATOGENICITY:	No data available
OTHER INFORMATION:	None

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Section 12 - Ecological Information

BIODEGRADABILITY: No data available
BIOACCUMULATION: No data available
FISH TOXICITY: No data available
OTHER INFORMATION: No data available

Section 13 - Disposal Considerations

Review "Handling and Storage(Section 7)".
Dispose of waste in accordance with local, state, and federal regulations.
Passed to a licensed waste contractor.
Incinerate with little portions.
Risk of producing harmful gasses such as carbon monoxide and nitrogen oxides.
This product may cause risk of dust explosion.

Section 14 - Transport Information

Follow all regulations in your country or region

PRECAUTIONS: Review "Accidental Release Measures (section 6)".
Review "Handling and Storage (section 7)".
Handle container carefully to avoid shock.
Ensure containers without breakage or leakage.
Ensure containers tightly fixed.
Do not fall or crash.
Keep dry.
Avoid heating (keep under 40C).
PROPER SHIPPING NAME: Non hazardous
HAZARD CLASS: Not applicable
UN Class/UN Number: Not applicable
PACKING GROUP: Not applicable
HAZARD LABELS: Not applicable

Section 15 - Regulatory Information

Follow all regulations in your country or region

Inventories:	EINECS(EU)	Yes (Organic pigment is treated as a new chemicals in ELINCS, charge control agent and monomers for some polymers are in ELINCS)
	TSCA(USA)	Yes
	AICS(Australia)	Yes
	DSL(Canada)	Yes (One of resins and charge control agent are in NDSL)
	ECL(Korea)	Yes
	ENCS(Japan)	Yes
	PICCS(Philippines)	Yes
	IECSC(China)	Yes

Section 16 - Other Information

Reference :

-IARC(1996) Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, vol.65, Printing Process and Inks, Carbon Black and Some Nitro Compounds, Lyon, pp149-261
-Ref.(1)(Section 11); GHS Classification Databases, National Institute of Technology and Evaluation (NITE)

Additional Information: None

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Review "HANDLING AND STORAGE(Section7)"

Dispose of waste in accordance with local, state and federal regulations.

Passed to a licensed waste contractor.

*****END OF MSDS*****

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