



PN C823K, C815K

Dell 1230c, 1235cn Printer 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 1230c, 1235cn Printer toner cartridge **Manufacturer:** : Dell Computer Corporation

Product ID:

Chemical Family: Toner Cartridge

Application: Dell 1230c, 1235cn Printer

Information: 1-800-W W W-DELL

Prepared By: Product Environmental Programs

Emergency: 1-800-833-6616

Section 2 - Composition / Information on Ingredients

Ingredients	Percent (wt.)	CAS Number
Carbon Black	2-5	1333-86-4
Polyester Resin	85-95	117581-13-2
Organic Pigment	0.3-0.6	147-14-8
Charge control agent	0.4-1.0	104815-18-1
Paraffin wax	1.0-2.5	8002-74-2
Ethylene/propylene copolymer	0.1-2.0	9010-79-1
Silica	0.5-2.0	7631-86-9
Silica	0.5-1.5	68909-20-6
Titanium dioxide	0.1-0.3	13463-67-7
Isobutyltrimethoxysilane		18395-30-7
Strontium titanium oxide	0.1-0.6	12060-59-2
Aluminum oxide	0.1-0.3	1344-28-1

Section 3 - Hazards Identification

Most Important Hazards:

Adverse Human Health Effects: To the best of our investigation, no special hazards have to be mentioned.

Environmental Effects: To the best of our investigation, no information about adverse effect in the environment available.

Physical and Chemical Hazards: May cause risk of dust explosion.

Class Name For MSDS In Japan: Not applicable.

Section 4 - First Aid Measures

In case of Inhalation: Remove person to fresh air. 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 Eye Contact: Immediately hold eyelids open and flush with a stream of water for at least 15 minutes. 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.

Section 5 - Fire Fighting Measures

Extinguishing Media: Water spray, powder

Not Suitable Extinguishing Media: No information available.

Specific Hazards: May produce irritating or toxic gases in a fire.

Specific Methods: Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.

Protection of Firefighters: Use goggles in a combination with dust mask, and another protections as appropriate to situation.

Section 6 - Accidental Release Measures

Personal Precautions: Use mask, goggles and protective gloves.
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.

Methods For Cleaning up Prevent dispersion of dust.
Sweep or vacuum by dust-explosion-proof type cleaner.

Prevention of Secondary Hazards No information available.

Section 7 - Handling and Storage

Handling

Technical Measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Precautions Avoid inhalation of fine dust. Protect from sun.

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

Storage Conditions Keep container tightly closed.
Protect from sun. Store in a well-ventilated room (Under 40°C)

Packaging Materials No information available.

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 an adequate ventilation.
Use local exhaust ventilation, in case of generation of dust.

Limit Values

ACGIH(TLV): TWA 3.5mg/m3
Carbon black
TWA 2mg/m3(fume)
Paraffin wax

OSHA(PEL) TWA 3.5mg/m3
Carbon black

Personal Protective Equipment

Respiratory Protection: Use dust mask, as appropriate to situation
Hand Protection: Rubber gloves
Eye Protection: Safety glasses with side shield(Safety goggles or Face shield)
Skin and Body Protection: Full body Suit
Hygiene Measures: No Information available

Section 9 - Physical and Chemical Properties

Form: Pulverizing powder

Color: Black **pH:** No data available

Odor: odourless

Specific Temperature/Temperature Ranges at Which Changes in Physical State Occur

Boiling Point No data available

Melting Point No data available

Decomposition Point No data available

Flash Point No data available

Autoignition Temperature No data available

Explosion Property

Explosion Upper limit : No data available, Lower limit : No data available

Vapour Pressure No data available

Vapour Density No data available

Density 1.2g/mL (20 °C)

Solubility

Water Solubility Insoluble

Solvent Solubility Partially soluble in toluene, chloroform and tetra hydrofurane.

Octanol/Water Partition No data available

Coefficient

Others No data available

Section 10 - Stability and Reactivity

Stability: Stable in general.

Hazardous Reactions: Stable.

Conditions to Avoid: No Information available

Materials to Avoid: No Information available

Hazardous Decomposition No Information available

Products:

Others: No Information available

Section 11 - Toxicological Information

Acute Toxicity: Oral, rat, LD50:> 5000mg/kg.

Local Effects

Corrosivity	No Information available
Skin Inhalation:	Rabbit,undiluted, 4hour semi-occluded application(OECD404) Not irritant (According to the criteria of EU).
Eye irritation:	Rabbit,undiluted, OECD405 : Not irritant (According to the criteria of EU)
Sensitization	Guinea pig, Guinea Pig Maximization Test: Negative
Carcinogenicity:	No Information available
IARC:	Group 2B: Possibly carcinogenic to humans Carbon black Group 3 : Not Classifiable Titanium dioxide
NTP:	Not established
OSHA:	Not established
Mutagenicity:	Ames Test(TA98,TA100, TA1535,TA1537,TA1538,WP2uvrA):Negative
Teratogenicity:	No Information available
Reproduction Toxicity:	No Information available
Other data:	No Information available

Section 12 - Ecological Information

Mobility:	No Information available
Persistence:	No Information available
Bioaccumulation:	No Information available
Ecotoxicity:	
Aquatic Toxicity:	No Information available
Other data:	No Information available

Section 13 - Disposal Considerations

Waste Disposal:

Review "Handling and Storage(Section 7)".
Passed to a licensed waste contractor.
This product may cause risk of dust explosion.
Dispose of waste in accordance with local,state,and federal regulations.

Section 14 - Transport Information

Follow all regulations in your country or region

UN Class/UN Number:	Not applicable
Precaution	Review "Accidental Release Measures(section 6)". Review "Handling and Storage(section 7)". Ensure containers without breakage or leakage. Ensure containers tightly fixed. Follow all regulations in your country or region

Section 15 - Regulatory Information

Follow all regulations in your country or region

Inventories:	ENCS(Japan)	Yes
	TSCA(USA)	Yes
	EINECS(EU)	No(ELINCS)
	AICS(Australia)	Yes
	DSL(Canada)	No (NDSL)
	ECL(Korea)	Yes
	PICCS(Philippines)	Yes
	IECSC	Yes

Section 16 - Other Information

Reference :

- Safety data sheet for chemical products-Part1: Content and order of sections(ISO 11014-1)
- International Chemical Safety Cards(ICSC)(Compiler's Guide)(1994)

Additional Information: None

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

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*****