

How to refill the ...

Lexmark CS317dn family

CS317dn, CX317dn, CS417dn, CX417de, CS517de, CX517de

Before use, familiarise yourself with the safety information on pages 7 and 8.

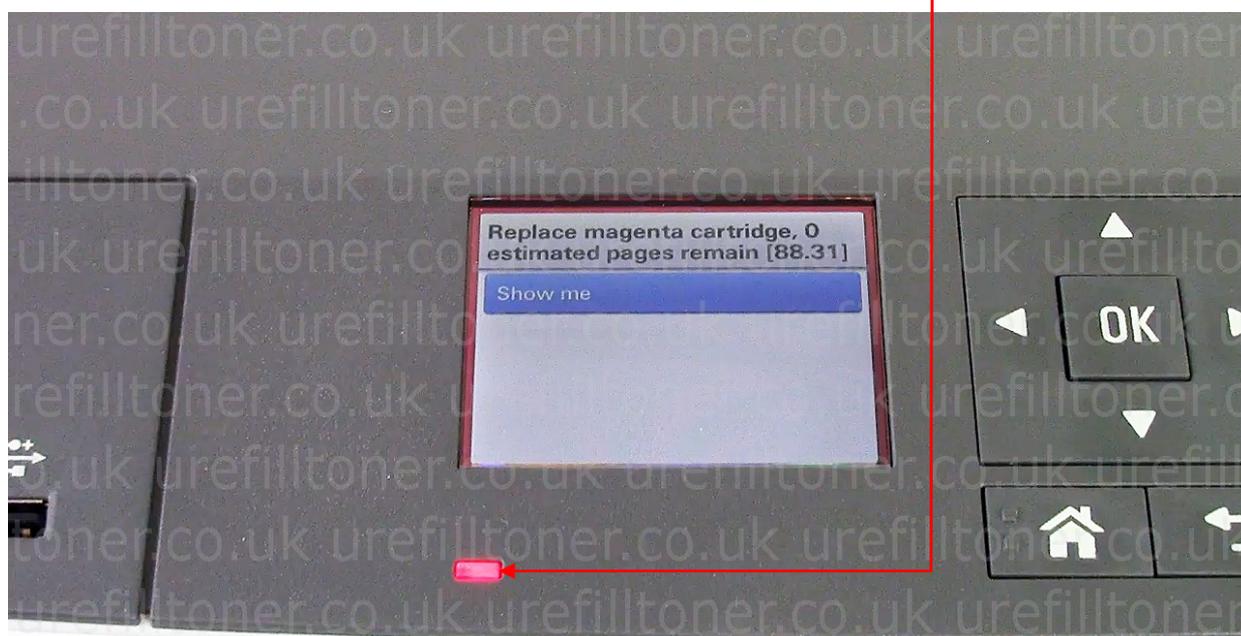
Consider doing the refill on top of sheets of old newspaper in case of accidental spills.

Inbox toner cartridges can be refilled

The new printer arrives with "inbox" (also known as "introductory" or "starter" cartridges). These can be refilled OK. In fact, we did the majority of our testing by refilling our inbox cartridges.

Refill and change chip only when you get the following message ...

- Replace [colour] cartridge, 0 estimated pages remain [88.31]
- Indicator light blinking
- Printer refuses to print (print jobs often stop half way through)



Warning! Only refill and change the chip on the cartridge mentioned in the message. Leave the other cartridges alone.

Lift green tab to take target cartridge out of printer



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How to refill it

- 1) Tear off label to expose oval-shaped plug



2) Carefully lever out plug with flat blade screwdriver



- 3) Shake unopened bottle vigorously for 5 seconds
- 4) Open toner bottle, remove heat seal if present and screw on spout as tightly as possible
- 5) Marry up spout with hole maintaining bottle below the horizontal
- 6) Jam spout into hole and up-end all to get bottle to near vertical



- 7) Wait for a count of 5 for toner to flow in
- 8) Rotate bottle back down to horizontal and disengage from cartridge
- 9) Shake bottle with finger firmly over end of spout
- 10) Repeat shake/pour until there's no toner left in bottle
- 11) Replace plug



Now replace the chip - see over page >>

12) Remove small Phillips Head screw



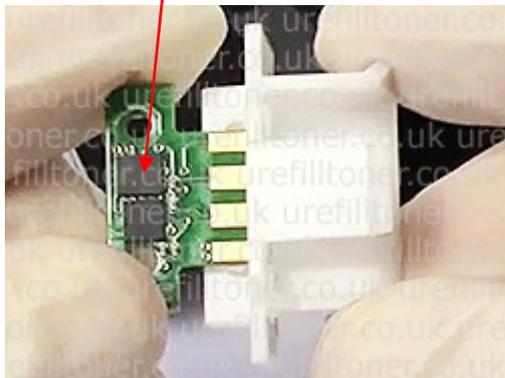
13) Take off the chip-holder retainer and pull out the whole of the white chip-holder structure



14) Unscrew the one screw that holds the chip and take out the old chip



15) Slide in new chip, making sure brass plates and black transistors are facing out



16) Put the screw back in to secure the new chip
Notice the chip's other hole has to be on the locator post



17) Replace the white chip-holder structure.

CARE! The apparent upside down "L" formed by the end of the white structure **must be as shown**



The white structure will be quite loose, but as long as it's orientated as shown, you'll have no problems.

18) Replace the black rectangular retainer

It hooks on at this end first

Note: even now the white chip-holder structure is fairly loose. That's OK. It actually finds the right position when the cartridge is put into the printer



19) Replace the small Phillips Head screw you took out in step 12

20) That's it. Put the cartridge back in the printer



Safety Data Brother Lexmark CS417 type toner

Only to be used by a competent risk-aware adult. Not to be used by children.

Consider personal safety issues when using a screwdriver as a lever: consider danger to the eyes, limbs, hands and other body parts to from unexpected releasing of resistance to the tool.

Avoid inhalation of product. Avoid eye and skin contact. Do not ingest. Avoid sources of ignition while pouring and at all times.

1 Identification of the substance and the company

Product name	Lexmark CS417 type refill toner
Part no.	LECS417BOTB, LECS417BOTC, LECS417BOTM, LECS417BOTY
Supplier	U Refill Toner Ltd.

2 Hazards identification

Classification	Not believed to be classified as hazardous according to OSHA CFR 1910.1200 or EU Directive 1999/45/EC, as amended.
Acute health effects	
Skin contact	Unlikely to cause skin irritation
Eye contact	May cause irritation
Inhalation	Irritation to respiratory tract if exposed to large amounts of toner dust
Ingestion	Unlikely when used as intended. Acute oral toxicity is believed to be low
Potential health effects	
Routes of exposure	Skin contact, eye contact and inhalation. Ingestion unlikely.
Chronic health effects	Prolonged inhalation of excessive amounts of any dust may cause lung damage
Carcinogenicity	Carbon black is classified by IARC as group 2B (possible human carcinogen). Carbon black in this preparation, due it its bound form, is not believed to present this risk. Polypropylene (9003-07-0) is classified by IARC as group 3

3 First aid measures

Inhalation	Move person to fresh air. If breathing is difficult, obtain medical assistance
Eye contact	Flush with plenty of low pressure water for at least 15 minutes. Do not rub eyes. Remove contact lenses to ensure thorough flushing.
Skin	Wash with water, obtain medical attention if ill effects occur
Ingestion	Seek medical advice. Oral toxicity is believed to be low.

4 Fire fighting measures

Hazardous combustion products	Carbon monoxide and carbon dioxide
Extinguishing media	Water, dry chemical, carbon dioxide or foam
Special fire fighting procedures	Avoid inhalation of smoke. A self contained breathing apparatus and suitable protective clothing should be worn.
Unusual fire & explosion hazards	Toner is a combustible powder; formation of an explosive dust-air mixture is possible. Avoid all ignition sources if toner has been dispersed in air.

5 Accidental release measures

Spill/leak procedure	Sweep up or vacuum spilled toner and transfer into sealable waste container. Sweep slowly to minimize generation of dust. If vacuum is used, the motor must be rated as dust tight and safely applicable to the vacuuming of toner dust. Residue can be removed with soap and cold water. Garments may be washed or dry-cleaned after removal of loose toner.
Environmental precautions	Do not flush into surface water or sanitary sewer systems. Dispose of waste material in accordance with all applicable laws.

6 Handling and storage

Handling	Keep containers closed when not in use. Handle and open containers with care. Use with adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Keep away from sources of heat, sparks and open flames.
Storage	Store at room temperature in the original container. Keep container tightly closed and dry. Do not store with strong oxidizers.

7 Exposure controls and personal protection

UK exposure guidelines	WEL: 10mg/m3 (inhalable dust), 3mg/m3 (respirable dust)
Personal protective equipment	
Eye / face	Wear dust resistant safety goggles if there is danger of eye contact
Hands / skin	Wear protective gloves
Respiratory protection	Wear approved respirator for dust when exposure exceeds permissible limits
Additional measures	Use in a well ventilated area. Use engineering controls to reduce air contaminants to permissible limits. Wash hands after use.

8 Toxicological information

Oral toxicity	Tests on toners have indicated there is no evidence of acute oral toxicity. Not classified for acute oral toxicity according to EU Directive 67/458/EEC and 1999/45/EC
Inhalation toxicity	No data
Eye irritation	Not classified as irritant according to OSHA HCS and EU 67/548/EEC as amended
Sensitization	Not classified as sensitizer according to OSHA HCS and EU 67/548/EEC as amended
Chronic toxicity	No data
Carcinogenicity	Carbon black is classified as a group 2B by IARC, but carbon black is present only in bound form in this preparation. Polypropylene (9003-07-0) is classified by IARC as group 3
Mutagenicity	Negative (AMES test)
Reproductive toxicity	Not classified as toxic according to EU 67/548/EEC as amended

9 Ecological information

Not tested for ecological effects

10 Disposal considerations

Collect into tightly sealed containers. Dispose of waste in accordance with all local laws. Do not throw in open fires in order to prevent risk of dust explosion.
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11 Transport information

General	Not regulated
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12 Other information

Labelling EU 67/458/EEC R & S phrases Hazard symbol	Not required Not required
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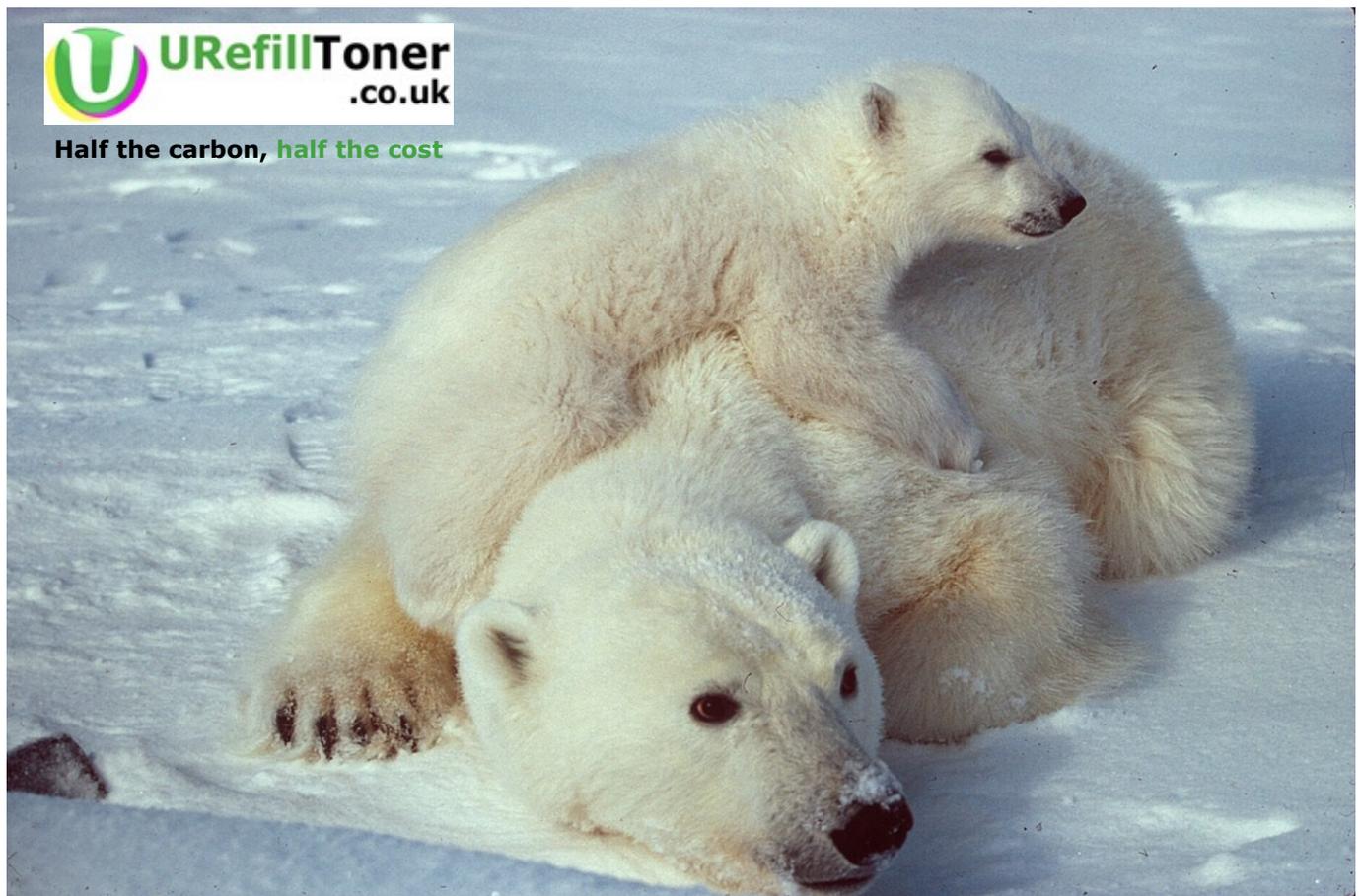
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If you the purchaser decide not to go ahead with refilling for whatever reason, simply return the product or products to U Refill Toner Ltd and we will cheerfully refund your money. Your statutory rights are unaffected.

Refills by you ... thanks to you

Thanks for refilling the toner cartridges in your printer. We invented "do-it-yourself" toner refills in 1992, "melt & pour" in 1996 and put "unplug & pour" into internet-speak in 2002. We've never tried to patent or otherwise restrict the use of these ideas.



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