LEXMARK™

Safety Data Sheet

Black Print Cartridge PN: 64004HA

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Identification of the substance or mixture

Description of the product type :	Part number :			
High Yield Return Program Print Cartridge for Label Applications	64004HA	64004HE	64004HL	64004HR
High Yield Return Program Print Cartridge	64015HA	64016HE	64018HL	64017HR
Return Program Print Cartridge	64015SA	64016SE	64018SL	**********
High Yield Print Cartridge	64035HA	64036HE	63038HL	64037HR
Print Cartridge	64035SA	64036SE	64038SL	64037SR

For actual printer/cartridge compatibility please reference www.lexmark.com

Product type : Solid.

Application : **Laser Printer T640, T642, T644**

Supplier/Manufacturer : **Lexmark International, Inc.**
740 West New Circle Road
Lexington, Ky 40550

Only representative : **Environ**
Sterling House
The Bourse, Boar Leeds,
L5l 5EQ, United Kingdom

e-mail address of person responsible for this SDS : **caldwell@lexmark.com**

e-mail address of person responsible for this SDS : **sbullock@uk.environcorp.com**

Emergency telephone number (24/7) [United States] : **Informations :1-859-232-3000**
Emergency :1-859-232-3333

Emergency telephone number (with hours of operation) : **+44 (0) 113 245 7552**

2. HAZARDS IDENTIFICATION

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified. (Article containing preparation)

See section 11 for more detailed information on health effects and symptoms.

See Section 12 for environmental precautions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Ingredient name	CAS number	%	EC number	Classification
Iron oxide	1317-61-9	5-10	215-277-5	Not classified. [2]
Carbon Black	1333-86-4	5-10	215-609-9	Not classified. [2]
Bis(3,5-di-tert-butylsalicylato-O1,O2)zinc	42405-40-3	1-2.5	403-360-0	F; R11 [1] Xn; R22 N; R50/53
See section 16 for the full text of the R-phrases declared above				
See section 16 for the full text of the R-phrases declared above				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

3. COMPOSITION/INFORMATION ON INGREDIENTS

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

Inhalation : If symptoms, such as shortness of breath or persistent coughing are experienced, remove source of contamination and move individual to fresh air. If symptoms persist, seek medical attention.

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

Eye contact : Do not rub eyes. Flush immediately with plenty of water. Remove contact lenses and continue flushing for at least 15 minutes. If irritation develops and persists, seek medical attention.

Ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Protection of first-aiders : No special measures are typically indicated.

Notes to physician : No specific antidote.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable : Carbon dioxide, water spray or fog, dry chemical or foam.

Not suitable : None known.

Special exposure hazards : Like many finely divided materials, toner dust, in high concentrations can form an explosive mixture in air which, if ignited, could result in a dust explosion.

Hazardous thermal decomposition products : Carbon monoxide, carbon dioxide, unidentified organics.

Special protective equipment for fire-fighters : Fire fighters should wear full protective clothing, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : None required for intended use in printer.

Environmental precautions : Disposal should be in accordance with applicable regional, national and local laws and regulations.

Methods for cleaning up

Small spill : If a dust cloud is possible due to a spill, remove all sources of ignition such as open sparks, flames, or static discharge to prevent the ignition of the dust. Minimize dust generation during clean up. Sweep up spill with non-metallic broom and dustpan. Contain for disposal. Oil permeated sweeping compound may be useful in cleaning up spills.

Large spill : Not applicable

7. HANDLING AND STORAGE

Handling : Avoid generating dust. To avoid damage to cartridge and accidental contact with toner, keep out of reach of children.

Storage : Store in a cool, dry place. Store away from oxidizing material.

Packaging materials

Recommended : Use original container. (Toner Cartridge)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name	Occupational exposure limits
Iron oxide	**EH40/2005 WELs (United Kingdom (UK), 8/2007).** STEL: 10 mg/m³, (as Fe) 15 minute(s). Form: Fume TWA: 5 mg/m³, (as Fe) 8 hour(s). Form: Fume
Carbon Black	**EH40/2005 WELs (United Kingdom (UK), 8/2007).** STEL: 7 mg/m³ 15 minute(s). TWA: 3.5 mg/m³ 8 hour(s).

Exposure controls

Exposure limit values : Toner dust is a particulate not otherwise classified (PNOC) or regulated (PNOR).

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Occupational exposure controls : Not required. Use only in well-ventilated areas.

Respiratory protection : None required for intended use in printer.

Hand protection : None required for intended use in printer.

Eye protection : None required for intended use in printer.

Skin protection : None required for intended use in printer.

Hygiene measures : Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

Environmental exposure controls : Not required. Use only in well-ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state : Solid. (Toner Cartridge)

Colour : Black.

Odour : Faint odour. (Plastic.)

Odour threshold : Not available.

Important health, safety and environmental information

Melting point : Not determined.

Flash point : Solid, not applicable

Explosion limits : Not determined.

Relative density : Not determined.

Auto-ignition temperature : Not applicable.

10. STABILITY AND REACTIVITY

Stability : The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not occur.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.

Materials to avoid : Strong oxidising materials.

Hazardous decomposition products : Carbon monoxide, carbon dioxide, unidentified organics.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Inhalation : Low acute inhalation toxicity. As with exposure to high concentrations of any dust, minimal irritation of the respiratory tract may occur. Pure carbon black, a minor component of this product, has been listed by IARC as a group 2B (possible carcinogen). This classification is based on rat "lung particulate overload" studies performed with airborne particulate carbon black. Toner is not listed by IARC, NTP, or OSHA.

Ingestion : Low acute oral toxicity. Exposure not probable with intended use.

Skin contact : No known significant effects or critical hazards.

Eye contact : No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : CARCINOGENIC EFFECTS: Classified + (Proven.) by NIOSH [Carbon Black]. Classified 2B (Possible for humans.) by IARC [Carbon Black]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Carbon Black].

Mutagenicity : Toner is negative (nonmutagnenic) in the Ames assay.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : No specific data.

Ingestion : No specific data.

Skin : No specific data.

Eyes : No specific data.

Other adverse effects : Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.

12. ECOLOGICAL INFORMATION

Environmental effects : Practically non-toxic to aquatic organisms.

Conclusion/Summary : The Annex I classification of the preparation (N;R50/53) due to the presence of the zinc compound is superseded by Daphnia 48-Hour Static Acute Toxicity Test results from a study using an essentially similar toner formulation with higher levels of the zinc compound. 48-Hour EL50, No Mortality/Immobility Level, and No Observable Effect Level are all 1000 mg/l.

Other adverse effects : No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. TRANSPORT INFORMATION

International transport regulations

ADR/RID / IMDG / IATA Classes : Not regulated.

15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Risk phrases : This product is not classified according to EU legislation.

Product use : Consumer applications, Industrial applications.

Europe inventory : All ingredients are listed on the European Inventory of Existing Commercial Substances (EINECS) list, have been registered on the European List of New Chemical Substances (ELINCS), or are exempt.

Other EU regulations

Additional warning phrases : Safety data sheet available for professional user on request.

International regulations lists

TSCA (USA) (United States) : All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.

ENCS (Japan) : All ingredients are listed on the Japanese Existing and New Chemical Substances (ENCS) list, have been registered, or are exempt.

AICS (Australia) : All ingredients are listed in Australian Inventory of Chemical Substances (AICS), have been registered, or are exempt.

Philippines inventory (PICCS) : All ingredients are listed on the Philippines Inventory (PICCS) or are exempt.

Korea inventory (KECI) : All ingredients are listed on the Korean Existing Chemicals List (ECL), have been registered, or are exempt.

China inventory (IECSC) : All ingredients are listed on the Chinese inventory (IECSC) or are exempt.

DSL/NDSL (Canada) : All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), or are exempt.

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK) : R11- Highly flammable.
R22- Harmful if swallowed.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK) : F - Highly flammable
Xn - Harmful
N - Dangerous for the environment

History

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.