Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - United Kingdom (UK)



SAFETY DATA SHEET

512 Toner

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier					
Product name : 512 Toner					
Description of the product ty	pe:	Part number			
MS911 Toner Cartridge MS911 Photoconductor Drum Kit MX91x Toner Cartridge MX91x Photoconductor Drum Kit		54G0H00 54G0P00 64G0H00 64G0P00	24B6309 24B6326	24B6327 24B6604	
REACH Status	•	,	•		egistered, pre-registered or gistered between 2011 and
Product type	: Solid.				
1.2 Polovant identified uses a	f the cube		uro and uses	advised against	
1.2 Relevant identified uses o				-	
Product use	: Laser P	rinter MS911,	MX910, MX91	1, MX912, XM9145, XN	19155, XIM9165
Area of application	: Consum	ner applicatior	ns, Industrial ap	plications.	
1.3 Details of the supplier of t	he safety o	data sheet			
Lexmark International, Inc. 740 West New Circle Road Lexington, Ky 40550					
e-mail address of person responsible for this SDS	: rcassidy	/@lexmark.co	m		
Only representative					
Only representative					
e-mail address of person responsible for this SDS	: sbullock	@uk.environ	corp.com		
Emergency telephone number (with hours of operation)	: +44 (0)	113 245 7552	2		
1.4 Emergency telephone nur <u>Supplier</u>	nber				

	:) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)	
512 Toner		
Telephone number	: Informations :1-859-232-2000 Emergency :1-859-232-3333 ChemTel: US/Canada/Puerto Rico 1-800-255-3924 International 1-813-248-0585 (Collect calls accepted)	
Hours of operation	: 24/7	
Section 2. Hazards	s identification	
2.1 Classification of the sub	stance or mixture	
Product definition	: Mixture	
Classification according to	Regulation (EC) No. 1272/2008 [CLP/GHS]	
Not classified.		
Ingredients of unknown toxicity	: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 72%	
Ingredients of unknown : ecotoxicity	: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 69%	
Classification according to	Directive 1999/45/EC [DPD]	
The product is not classified a	as dangerous according to Directive 1999/45/EC and its amendments.	
Classification	: Not classified. (Article containing preparation)	
	See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.	
2.2 Label elements		
Hazard pictograms	: Not applicable.	
Signal word	: No signal word.	
Hazard statements	: No known significant effects or critical hazards.	
Precautionary statements		
Prevention	: Not applicable.	
Response	: Not applicable.	
Storage	: Not applicable.	
Disposal	: Not applicable.	
Hazardous ingredients	: Not applicable.	
Supplemental label elements	: Not applicable.	
2.3 Other hazards		
Other hazards which do no result in classification	t : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). COMBUSTIBLE DUSTS	

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product/ingredient name	Identifiers		Classification		
		%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
diiron trioxide	EC: 215-168-2 CAS: 1309-37-1	>=10 -<15	Not classified.	Not classified.	[2]
Carbon black	EC: 215-609-9 CAS: 1333-86-4	>=5 -<10	Not classified.	Not classified.	[2]
silicon dioxide	EC: 231-545-4 CAS: 7631-86-9	>=1 - <5	Not classified.	Not classified.	[2]
manganese oxide	EC: 215-695-8 CAS: 1344-43-0	>=1 - <5	Not classified.	Not classified.	[2]

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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

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

Section 4. First aid measures

4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects	<u>8</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.

Section 4. First aid measures			
Skin contact	: No known significant effects or critical hazards.		
Ingestion	: No known significant effects or critical hazards.		
Over-exposure signs/sy	mptoms		
Eye contact	: No specific data.		
Inhalation	: No specific data.		
Skin contact	: No specific data.		
Ingestion	: No specific data.		
4.3 Indication of any imme	ediate medical attention and special treatment needed		
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 		
Specific treatments	: No specific treatment.		

Section 5. Fire-fighting measures

y	
5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising from	om the substance or mixture
Hazards from the substance or mixture	: No specific fire or explosion hazard.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters	
Special precautions for fire- fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures For non-emergency : No action shall be taken involving any personal risk or without suitable training.

personnelEvacuate surrounding areas. Keep unnecessary and unprotected personnel from
entering. Do not touch or walk through spilt material. Put on appropriate personal
protective equipment.

Section 6. Accidental release measures

For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materials for	containment and cleaning up
Small spill	: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
6.4 Reference to other sections	 See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

Section 7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

	-		
Protective measures	: Put on appropriate personal protective equipment (see Section 8).		
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.		
7.2 Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.		
7.3 Specific end use(s)			
Recommendations	: Not available.		
Industrial sector specific solutions	: Not available.		

Section 8. Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Section 8. Exposure controls/personal protection

Occupational exposure limits

Product/ingredient name	Exposure limit values
diiron trioxide	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	TWA: 10 mg/m ³ 8 hours. Form: inhalable dust
	TWA: 4 mg/m ³ 8 hours. Form: respirable dust
Carbon black	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	STEL: 7 mg/m ³ 15 minutes.
	TWA: 3.5 mg/m ³ 8 hours.
silicon dioxide	EH40/2005 WELs (United Kingdom (UK), 12/2011).
	TWA: 6 mg/m ³ 8 hours. Form: inhalable dust
	TWA: 2.4 mg/m ³ 8 hours. Form: respirable dust
manganese oxide	EH40-MEL (United Kingdom (UK), 5/2003).
	TWA: 0.5 mg/m ³ 8 hours. Form: All forms.
	EH40/2005 WELs (United Kingdom (UK), 12/2011). Notes: as
	Mn
	TWA: 0.5 mg/m ³ , (as Mn) 8 hours.

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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

controls

Appropriate engineering

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 8. Exposure controls/personal protection

Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Solid (Finely divided solid.)
Colour	: Black.
Odour	: Faint odor (Plastic.)
Odour threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	: Not available.
boiling range	
Flash point	: Closed cup: Not applicable.
Evaporation rate	: Not applicable.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or	: Not available.
explosive limits	
Vapour pressure	: Not available.

Section 9. Physical and chemical properties

Vapour density	: Not applicable.
Relative density	: Not determined.
Solubility(ies)	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Explosive properties	: Not available.
Oxidising properties	: Not available.

9.2 Other information

No additional information.

Section 10. Stability and reactivity		
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	: The product is stable.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: No specific data.	
10.5 Incompatible materials	: Strong oxidising materials.	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

Section 11. Toxicological information

: Not available.

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
512 Toner	LD50 Inhalation dusts and	Rat	>5000 mg/l	4 hours
	mists	Rat		
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary

Acute toxicity estimates

Not available.

Irritation/Corrosion

Section 11. Toxicological information

Conclusion/Summary	: Not available.
Sensitization	
Conclusion/Summary	: Not available.
Mutagenicity	
Conclusion/Summary	: Toner is negative (nonmutagenic) in the Ames assay.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Specific target organ toxicity	<u>/ (single exposure)</u>
Not available.	
Specific target organ toxicity	/ (repeated exposure)
Not available.	
Aspiration hazard	
Not available.	
Information on the likely	: Not available.
routes of exposure	
Potential acute health effects	<u>8</u>
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Eye contact	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: No specific data.
Eye contact	: No specific data.
Delayed and immediate effect	cts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Date of issue/Date of revision	: 6 July 2015

Section 11. Toxicological information

Potential chronic health effects

Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards. Toner is negative (nonmutagenic) 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.
Other information	: Not available.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
512 Toner	Acute EC50 >1000 mg/l	Daphnia	48 hours
Conclusion/Summary	: Not available.		

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (K _{oc})	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects	• No known significant effects or critica
vPvB	: Not applicable.
PBT	: Not applicable.

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

Section 13. Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Section 13. Disposal considerations

Product Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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. Packaging Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. **Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

512 Toner

Section 14. Transport information

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Hazards identification

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU Regulation (EC) No. 1907/2006 (REACH)		
Annex XIV - List of substances subject to authorisation		
Substances of very high c	oncern	
None of the components an	re listed.	
Annex XVII - Restrictions	: Not applicable.	
on the manufacture, placing on the market and		
use of certain dangerous		
substances, mixtures and		
articles		
Other EU regulations		
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.	
Black List Chemicals	: Not listed.	
Priority List Chemicals	: Not listed.	
Integrated pollution	: Not listed.	
prevention and control list (IPPC) - Air		
Integrated pollution	: Not listed.	
prevention and control list		
(IPPC) - Water		
International regulations lists		
AICS (Australia)	: All ingredients are listed in Australian Inventory of Chemical Substances (AICS), have been registered, or are exempt.	
China inventory (IECSC)	: All ingredients are listed on the Chinese inventory (IECSC) or are exempt.	
DSL/NDSL	: All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), 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.	

Section 15. Hazards identification

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.
United States inventory (TSCA 8b)	: All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.
Chemical Weapons Convention List Schedule I Chemicals	: Not listed.
Chemical Weapons Convention List Schedule II Chemicals	: Not listed.
Chemical Weapons Convention List Schedule III Chemicals	: Not listed.
15.2 Chemical Safety Assessment	: This product contains substances for which Chemical Safety Assessments are still required.

Section 16. Other information

Indicates information that h	as changed from previously issued version.
Abbreviations and : acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
Key literature references and a sources for data	Regulation (EC) No. 1272/2008 [CLP] International transport regulations Occupational exposure limits IATA Dangerous Goods Regulation (DGR) 55th Edition 2014

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification Not classified.		Justification	
Full text of abbreviated H statements	: Not applicable.		
Full text of classifications [CLP/GHS]	: Not applicable.		
Full text of abbreviated R phrases	: Not applicable.		
Full text of classifications [DSD/DPD]	: Not applicable.		

Section 16. Other information

Date of issue/ Date of revision	: 6 July 2015
Date of previous issue	: 14 July 2014
Version	: 1

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.