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



SAFETY DATA SHEET

678K Toner

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

1.1 Product identifier	
Product name	: 678K Toner
Description of the product	type : Part number :
Toner ASM 678K SS Toner ASM 678K DR	15B0354 15B0353
REACH Status	: EU (REACH): All components of the toner formulation are registered, pre-registered or exempt under REACH. Pre-registered chemicals will be registered between 2011 and 2018.
Product type	: Solid.
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Laser Printer C750, C752, C760, C762, C770, C772, C780, C782
Area of application	: Consumer applications, Industrial applications.
 1.3 Details of the supplier of Lexmark International, Inc. 740 West New Circle Road Lexington, Ky 40550 	the safety data sheet
e-mail address of person responsible for this SDS	: rcassidy@lexmark.com
Only representative	: Environ Sterling House The Bourse, Boar Leeds, L5I 5EQ, United Kingdom
e-mail address of person responsible for this SDS	: sbullock@uk.environcorp.com
Emergency telephone number (with hours of operation)	: +44 (0) 113 245 7552
1.4 Emergency telephone nu	mber
<u>Supplier</u>	
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 identification

2.1 Classification of the su	bstance or mixture
Product definition	: Mixture
Classification according t Not classified.	o Regulation (EC) No. 1272/2008 [CLP/GHS]
Ingredients of unknown toxicity	: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 14.9%
Ingredients of unknown ecotoxicity	: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 14.9%
Classification according t	o Directive 1999/45/EC [DPD]
The product is not classifie	ed as dangerous according to Directive 1999/45/EC and its amendments.
Classification	: Not classified.

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		
Signal word	1	No signal word.
Hazard statements	1	No known significant effects or critical hazards.
Precautionary statements		
Prevention	1	Not applicable.
Response	1	Not applicable.
Storage	1	Not applicable.
Disposal	1	Not applicable.
Hazardous ingredients	1	Not applicable.

Hazardous ingredients	: Not applicable.
Supplemental label	: Not applicable.
elements	

2.3 Other hazards

Other hazards which do not result in classification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). COMBUSTIBLE DUSTS

SECTION 3: Composition/information on ingredients

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Substance/mixture	1	Mixture

			Class	ification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Carbon black	EC: 215-609-9 CAS: 1333-86-4	≥3 - <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.

Туре

[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.

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SECTION 4: First aid measures

4.1 Description of first aid n	neasures
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

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/symp	toms
Eye contact	: No specific data.

Eye contact	No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.

4.3 Indication of any immediate 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: Firefighting measures

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 fro	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	
5.3 Advice for firefighters			
Special precautions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident there is a fire. No action shall be taken involving any personal risk or without suitable training.	if
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SECTION 5: Firefighting measures

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.
	chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	e equipment and emergency procedures	
For non-emergency personnel	action shall be taken involving any personal risk or without suitable training. acuate surrounding areas. Keep unnecessary and unprotected personnel fro tering. Do not touch or walk through spilt material. Put on appropriate persor otective equipment.	
For emergency responders	specialised clothing is required to deal with the spillage, take note of any ormation in Section 8 on suitable and unsuitable materials. See also the ormation in "For non-emergency personnel".	
6.2 Environmental precautions	oid dispersal of spilt material and runoff and contact with soil, waterways, draid d sewers. Inform the relevant authorities if the product has caused environmo llution (sewers, waterways, soil or air).	
6.3 Methods and material for	inment and cleaning up	
Small spill	ove containers from spill area. Vacuum or sweep up material and place in a signated, labelled waste container. Dispose of via a licensed waste disposal ntractor.	
Large spill	ove containers from spill area. Prevent entry into sewers, water courses, sements or confined areas. Vacuum or sweep up material and place in a signated, labelled waste container. Dispose of via a licensed waste disposal ntractor.	
6.4 Reference to other sections	e Section 1 for emergency contact information. e Section 8 for information on appropriate personal protective equipment. e 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	1	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.	
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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

Occupational exposure limits

Product/ingredient name		Exposure limit values
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.
Recommended monitoring procedures	atmosphere or of the ventilatic protective equi the following: I the assessmer limit values and atmospheres - of exposure to (Workplace atr for the measure	contains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness on or other control measures and/or the necessity to use respiratory pment. Reference should be made to monitoring standards, such as European Standard EN 689 (Workplace atmospheres - Guidance for it of exposure by inhalation to chemical agents for comparison with a measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be
Derived effect levels No DELs available.		
Predicted effect concentrat	tions	
No PECs available.		
.2 Exposure controls		
Appropriate engineering controls	: Good general contaminants.	ventilation should be sufficient to control worker exposure to airborne
Individual protection meas	<u>ures</u>	
Hygiene measures	before eating, Appropriate te Wash contami	forearms and face thoroughly after handling chemical products, smoking and using the lavatory and at the end of the working period. chniques should be used to remove potentially contaminated clothing. nated clothing before reusing. Ensure that eyewash stations and s are close to the workstation location.
Eye/face protection	assessment in gases or dusts	r complying with an approved standard should be used when a risk dicates this is necessary to avoid exposure to liquid splashes, mists, b. If contact is possible, the following protection should be worn, essment indicates a higher degree of protection: safety glasses with
Skin protection		
Hand protection		stant, impervious gloves complying with an approved standard should times when handling chemical products if a risk assessment indicates ary.
Body protection		ective equipment for the body should be selected based on the task ed and the risks involved and should be approved by a specialist g this product.
Other skin protection	selected base	otwear and any additional skin protection measures should be d on the task being performed and the risks involved and should be specialist before handling this product.

SECTION 8: Exposure controls/personal protection

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	an	nd chemical properties
<u>Appearance</u>		
Physical state	:	Solid.
Colour	:	Black.
Odour	:	Faint odour. (Plastic.)
Odour threshold	:	Not available.
рН	:	Not applicable.
Melting point/freezing point	1	Not available.
Initial boiling point and boiling range	:	Not available.
Flash point	:	Closed cup: Not applicable.
Evaporation rate	:	Not applicable.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Not available.
Vapour pressure	:	Not available.
Vapour density	:	Not available.
Relative density	:	Not available.
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 ingredie	nts.
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.	
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SECTION 10: Stability and reactivity

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

678K Toner Conclusion/Summary Acute toxicity estimates	m L[C50 Inhalation Dusts and ists D50 Oral	Rat	>5000 mg/l	4 hours
	LC	050 Oral	. .		
			Rat	>5000 mg/kg	-
		Not available.		eece mg.ng	
Not available.					
rritation/Corrosion					
Conclusion/Summary	: 1	Not available.			
<u>ensitiser</u>					
Conclusion/Summary	: 1	Not available.			
lutagenicity					
Conclusion/Summary	: 1	Not mutagenic in Ames test.			
Carcinogenicity					
Conclusion/Summary		Low acute inhalation toxicity. As minimal irritation of the respirate dioxide, minor components of the (possible carcinogen). This class studies performed with airborne OSHA. Long term exposure to e dusts has resulted in a condition poneumoconiosis, caused by dep	bry tract may occ nis product, has sification is base particulate. Tor excessive conce n identified as si	cur. Pure carbon bl been listed by IAR(ed on rat "lung part her is not listed by I ntrations of iron ox derosis, a relatively	ack and titanium C as a group 2B iculate overload" ARC, NTP, or ide-containing benign
Reproductive toxicity				·	0
Conclusion/Summary	: 1	Not available.			
eratogenicity					
Conclusion/Summary	: 1	Not available.			
pecific target organ toxicit	ty (si	ingle exposure)			
Not available.					
<mark>specific target organ toxicit</mark> Not available.	<u>ty (re</u>	epeated exposure)			
Aspiration hazard Not available.					
nformation on the likely outes of exposure	: 1	Routes of entry anticipated: Der	rmal, Inhalation.		
Potential acute health effect	<u>ts</u>				
Inhalation	: 1	No known significant effects or	critical hazards.		
Ingestion	: 1	No known significant effects or	critical hazards.		
Skin contact	: 1	No known significant effects or	critical hazards.		
Eye contact	: 1	No known significant effects or	critical hazards.		
ate of issue/Date of revision	n :	10 June 2015			7/1

SECTION 11: Toxicological information

		5
Symptoms related to the ph	ys	ical, chemical and toxicological characteristics
Inhalation	1	No specific data.
Ingestion	:	No specific data.
Skin contact	:	No specific data.
Eye contact	:	No specific data.
Delayed and immediate effe	ct	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate	:	Not available.
effects		
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate	1	Not available.
effects		
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
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	1	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	1	No known significant effects or critical hazards.
Other information	:	Not available.
	_	

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
678K 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 coefficient (K _{oc})	: Not available.
Mobility	: Not available.

12.5 Results of PBT	and vPvB assessment
PBT	: Not applicable
vPvB	: Not applicable

678K Toner

SECTION 12: Ecological information

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

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.

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

SECTION 15: Regulatory information

•							
15.1 Safety, health and enviro	onr	nental regulations/legislation specific for the substance or mixture					
EU Regulation (EC) No. 190	7/2	<u>006 (REACH)</u>					
Annex XIV - List of substances subject to authorisation							
Substances of very high concern							
None of the components are listed.							
Annex XVII - Restrictions on the manufacture, placing on the market		: Not applicable.					
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	1	Not listed					
Priority List Chemicals	4	Not listed					
Integrated pollution prevention and control list (IPPC) - Air	:	Not listed					
Integrated pollution prevention and control list (IPPC) - Water	:	Not listed					
International regulations lists	2						
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.					
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 has 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 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]

Classi	fication	Justification	
Not classified.			
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.		
Date of issue/ Date of revision	: 10 June 2015		
Date of previous issue	: No previous validation		
Version	: 1		
Notice to reader			

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.