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



SAFETY DATA SHEET

299/499 Toner

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

1.1 Product identifier		
Product name	: 299/4	99 Toner
Description of the product t	ype :	Part number :
Toner ASM 299 SS Toner ASM 299 DR Toner ASM 499 SS Toner ASM 499 DR		15B0156 15B0204 15B0499 15B0498
REACH Status	· ·	EACH): All components of the toner formulation are registered, pre-registered empt under REACH. Pre-registered chemicals will be registered between 2011 018.
Product type	: Solid.	
1.2 Polovant identified uses	of the sub	estance or mixture and uses advised against
Product use		Printer E320, E322, T520, T522, T610, T612, T614, T616
Area of application		rial applications, Professional applications.
		······································
1.3 Details of the supplier of	the safety	/ data sheet
Lexmark International, Inc. 740 West New Circle Road Lexington, Ky 40550		
e-mail address of person responsible for this SDS	: rcassi	dy@lexmark.com
Only representative		
Only representative	The B	on Sterling House ourse, Boar Leeds, EQ, United Kingdom
e-mail address of person responsible for this SDS	: sbullo	ck@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	Emerg	hations :1-859-232-2000 gency :1-859-232-3333 Tel: 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: 91.5%		
Ingredients of unknown ecotoxicity	: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 91.5%		
Classification according to 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	: 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	: Safety data sheet available on request.
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

: Mixture

Substance/mixture	Substan	ce/mixture	
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			Clas	ssification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
triiron tetraoxide	EC: 215-277-5 CAS: 1317-61-9	≥10 - <25	Not classified.	Not classified.	[2]
Carbon black	EC: 215-609-9 CAS: 1333-86-4	≥5 - <10	Not classified.	Not classified.	[2]
silicon carbide	EC: 206-991-8 CAS: 409-21-2	≥3 - <5	Not classified.	Not classified.	[2]
Charge Control Agent		≥1 - <3	F; R11 Xn; R22 N; R50/53	Flam. Sol. 1, H228 Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
Date of issue/Date of r	evision : 1 June 201	5			. 2/1

SECTION 3: Composition/information on ingredients

	•	•		
		the full text of the R-	See Section 16 for the full text of the H statements 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.

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.

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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 effectsEye contact: No known significant effects or critical hazards.

Ljoonnaor	
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.
<u>Over-exposure signs/sy</u>	<u>mptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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 from the substance or mixture Hazards from the substance or mixture Hazardous combustion products Carbon dioxide carbon monoxide nitrogen oxides 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, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
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 material for	со	ntainment 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).

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7.1 Precautions for safe han	dling
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	: 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

solutions

Occupational exposure limits

Product/ingredient name	Exposure limit values
triiron tetraoxide	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 10 mg/m ³ , (as Fe) 15 minutes. Form: Fume
Carbon black	TWA: 5 mg/m ³ , (as Fe) 8 hours. Form: Fume EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 7 mg/m ³ 15 minutes.
silicon carbide	TWA: 3.5 mg/m ³ 8 hours. 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
procedures atmos of the protect the fo the as limit v atmos of exp (Work for the	product contains ingredients with exposure limits, personal, workplace sphere or biological monitoring may be required to determine the effectiveness e ventilation or other control measures and/or the necessity to use respiratory ctive equipment. Reference should be made to monitoring standards, such as ollowing: European Standard EN 689 (Workplace atmospheres - Guidance for ssessment of exposure by inhalation to chemical agents for comparison with values and measurement strategy) European Standard EN 14042 (Workplace spheres - Guide for the application and use of procedures for the assessment posure to chemical and biological agents) European Standard EN 482 kplace atmospheres - General requirements for the performance of procedures e measurement of chemical agents) Reference to national guidance ments for methods for the determination of hazardous substances will also be red.
Derived effect levels	
No DELs available.	
Predicted effect concentrations	
oto of icous/Data of revision 1 lu	no 2015 5//

SECTION 8: Exposure controls/personal protection

No PECs available.

8.2 Exposure controls		
Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<u>ures</u>	
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.
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

<u>Appearance</u>		
Physical state	: Solid.	(Toner.)
Colour	: Black	
Odour	: Faint	plastic-like odor.
Odour threshold	: Not av	ailable.
рН	: Not av	vailable.
Melting point/freezing point	: Not av	vailable.
Initial boiling point and	: Not av	ailable.
boiling range		
Flash point	: Not av	vailable.
Evaporation rate	: Not av	vailable.
Flammability (solid, gas)	: Not av	vailable.
Upper/lower flammability or	: Not av	vailable.
explosive limits		
Vapour pressure	: Not av	vailable.
Date of issue/Date of revision	: 1 June 2	015

SECTION 9: Physical and chemical properties

Vapour density	1	Not available.
Relative density	:	Not available.
Solubility(ies)	\$	Not available.
Partition coefficient: n-octanol/	;	Not available.
water		
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Explosive properties	:	Not available.
Oxidising properties	:	Not available.

9.2 Other information

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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	: 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

Product/ingredient name	Result	Species	Dose	Exposure
299/499 Toner	LC50 Inhalation Dusts and mists	Rat	>5000 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	: Not available.			
Acute toxicity estimates				
Not available.				
ritation/Corrosion				
Conclusion/Summary	: Not available.			
ensitiser				
Conclusion/Summary	: Not available.			
lutagenicity				
Conclusion/Summary	: Not mutagenic in Ames test.			
arcinogenicity				

SECTION 11: Toxicological information

Conclusion/Summary	: 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. Toner is not listed by IARC, NTP, or OSHA. Long term exposure to excessive concentrations of iron oxide-containing dusts has resulted in a condition identified as siderosis, a relatively benign pneumoconiosis, caused by deposition of iron oxide particles in the lung.
Reproductive toxicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Specific target organ toxicit	t <u>y (single exposure)</u>
Not available.	
Specific target organ toxicit Not available.	ty (repeated exposure)
Aspiration hazard	
Not available.	
Information on the likely routes of exposure	: Routes of entry anticipated: Dermal, Inhalation.
Potential acute health effec	ts
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.
· · · · · · · · · · · · · · · · · · ·	ysical, chemical and toxicological characteristics
Inhalation	: No specific data.
Ingestion	No specific data.
Skin contact	: No specific data.
Eye contact	: No specific data.
	ects 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.
Potential chronic health effe	ects
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	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Date of issue/Date of revision	n : 1 June 2015 8/12

SECTION 11: Toxicological information

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
299/499 Toner	Acute EC50 >1000 mg/l Acute EC50 >1000 mg/l	Daphnia Daphnia	24 hours 48 hours
Conclusion/Summary	: Not available.		

Conclusion/Summary

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Charge Control Agent	1.32	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

PBT	: Not applicable.
vPvB	: 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

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.
Date of issue/Date of revis	ion : 1 June 2015 9/12

SECTION 14: Transport information

	-			
	ADR/RID	ADN	IMDG	IATA
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.

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

SECTION 15: Regulatory information

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 concern

None of the components are listed.

-		
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
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	:	Not listed
Integrated pollution prevention and control list (IPPC) - Air	:	Not listed
Integrated pollution prevention and control list (IPPC) - Water	:	Not listed

SECTION 15: Regulatory information

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)	1	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]

Classification		Justification	
Not classified.			
Full text of abbreviated H statements	: H228 Flammable solid H302 Harmful if swalld (oral) H400 Very toxic to aqu H410 Very toxic to aqu	owed.	
Full text of classifications [CLP/GHS]	: Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Flam. Sol. 1, H228	ACUTE TOXICITY (oral) - Category 4 ACUTE AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 1 FLAMMABLE SOLIDS - Category 1	

SECTION 16: Other information		
Full text of abbreviated R phrases	:	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 [DSD/DPD]	:	F - Highly flammable Xn - Harmful N - Dangerous for the environment
Date of issue/ Date of revision	:	1 June 2015
Date of previous issue	:	10 August 2014
Version	1	2

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.