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



SAFETY DATA SHEET

456Y Toner

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

1.1 Product identifier			
Product name	: 456Y T	oner	
Description of the product t	ype :	Part number :	
Toner ASM 456Y SS Toner ASM 456Y DR		5S456Y 5S455Y	
REACH Status		pt under REACH. Pre-regis	e toner formulation are registered, pre-registered tered chemicals will be registered between 2011
Product type	: Powder.		
1.2 Relevant identified uses of	of the subst	ance or mixture and uses a	advised against
Product use	Laser Pr XC2132		CS510, CX310, CX410, CX510, XC2130,
Area of application	: Consum	er applications, Industrial ap	plications.
1.3 Details of the supplier of	he safety d	ata sheet	
Lexmark International, Inc. 740 West New Circle Road Lexington, Ky 40550			
e-mail address of person responsible for this SDS	: rcassidy	@lexmark.com	
Only representative			
Only representative	The Bou	Sterling House ırse, Boar Leeds, , 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 nui	nber		
Supplier			
Telephone number	Emerge	ions :1-859-232-2000 ncy:1-859-232-3333 el: US/Canada/Puerto Rico International (Collect calls accepted)	1-800-255-3924 1-813-248-0585
Hours of operation	: 24/7		

SECTION 2: Hazards identification

2.1 Classification of the sub	ostance or mixture	
Product definition	: Mixture	
Classification according to	D Regulation (EC) No. 1272/2008 [CLP/GHS]	
Not classified.		
Ingredients of unknown toxicity	: Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 20.5%	
Ingredients of unknown ecotoxicity	: Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 20.5%	
Classification according to Directive 1999/45/EC [DPD]		
The product is not classifie	d as dangerous according to Directive 1999/45/EC and its amendments.	
Classification	: Not classified.	
See Section 16 for the full te	xt 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	: 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

Substance/mixture

: Mixture

<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

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.

SECTION 4: First aid measures		
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

4.2 most important sy	inploins and checks, both acute and delayed
Potential acute healt	h effects
Eye contact	 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Inhalation	 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs</u>	/symptoms
Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	: Adverse symptoms may include the following:

Inhalation	: Adverse symptoms may include the followi respiratory tract irritation coughing
Skin contact	: No specific data.
Ingestion	: No specific data.

4.3 Indication of any immediate 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 dry chemical powder.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Fine dust clouds may form explosive mixtures with air.

 Hazardous combustion
 : Decomposition products may include the following materials:

 products
 : carbon dioxide

 carbon monoxide
 nitrogen oxides

 metal oxide/oxides
 ide/oxides

5.3 Advice for firefighters

SECTION 5: Firefighting measures

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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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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, prote	ective 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. 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 containment and cleaning up			
Small spill	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. 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). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

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

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

No exposure limit value known.

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

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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 clothin 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: safety glasses with the safety shower and the term of the work. 	SECTION 8: Exposure controls/personal protection			
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. If operating conditions cause high dust concentrations to be produce use dust goggles.	s, th			
Skin protection				
 Hand protection Chemical-resistant, impervious gloves complying with an approved standard show be worn at all times when handling chemical products if a risk assessment indicat 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.	ct			
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	: Yellow.
Odour	: Faint odour. (Plastic.)
Odour threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flash point	: Not available.
Evaporation rate	: Not applicable.
Flammability (solid, gas)	: Not available.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not applicable.
Relative density	: Not determined.
Solubility(ies)	: Not available.
Partition coefficient: n-octanol/ water	: Not available.
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SECTION 9: Physical and chemical properties

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	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.	
10.5 Incompatible materials	Reactive or incompatible with the following materials: oxidizing materials	
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
456Y Toner	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary Acute toxicity estimates Not available.	: Not available.			
rritation/Corrosion Conclusion/Summary Sensitiser	: Not available.			
Conclusion/Summary <u>Mutagenicity</u>	: Not available.			
Product/ingredient name	Test	Experiment	t	Result
456Y Toner	OECD 471 Bacterial Reverse Mutation Test	Subject: Bacteria	Ne	gative
Conclusion/Summary Carcinogenicity	: Not mutagenic in Ame	es test.		

SECTION 11: Toxico	ological 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 titanium dioxide, 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 toxic	<u>ity (single exposure)</u>
Not available.	
Specific target organ toxic Not available.	ity (repeated exposure)
Aspiration hazard Not available.	
Information on the likely routes of exposure	: Routes of entry anticipated: Dermal, Inhalation.
Potential acute health effe	<u>cts</u>
Inhalation	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Eye contact	: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
Symptoms related to the p	hysical. chemical and toxicological characteristics
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Ingestion	: No specific data.
Skin contact	: No specific data.
Eye contact	: Adverse symptoms may include the following: irritation redness
Delayed and immediate eff	ects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	s : Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	
Potential chronic health ef Not available.	<u>fects</u>
Conclusion/Summary	: Not available.
General	: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
Date of issue/Date of revision	on : 29 April 2015 8/

SECTION 11: Toxicological information

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
456Y 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

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.

: 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. Wast packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.	te
Date of issue/Date of revision	: 29 April 2015 9	9/12

SECTION 13: Disposal considerations

Special precautions

This material and its container must be disposed of in a safe way. Empty 2 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	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.

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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	: Not listed
Priority List Chemicals	: Not listed

SECTION 15: Regulatory information				
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.		

Assessment

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	: Not available.

and sources for data

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	: Not applicable.	
Full text of classifications [CLP/GHS]	: Not applicable.	

SECTION 16: Other information

Full text of abbreviated R phrases	: Not applicable.
Full text of classifications [DSD/DPD]	: Not applicable.
Date of issue/ Date of revision	: 29 April 2015
Date of previous issue	: 23 September 2013
Version	: 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.