Conforms to US OSHA Hazard Communication 29CFR1910.1200



substance or mixture

SAFETY DATA SHEET

733/766 Toner

Section 1. Identif	fication
GHS product identifier	: 733/766 Toner
Product type	: Solid.
Description :	Part number :
Toner ASM 733 SS Toner ASM 733 DR Toner ASM 766 SS Toner ASM 766 DR	15B0733 15B0734 15B0766 15B0767
For actual printer/cartridge	compatibility please reference www.lexmark.com
Application	 Laser Printer M1140, M1145, M1242, M1246, M3150, M3250, M5155, M5163, M5170, MS310, MS312, MS315, MS317, MS321, MS410, MS415, MS417, MS421, MS510, MS517, MS521, MS610, MS617, MS621, MS622, MS710, MS711, MS810, MS811, MS812, MX310, MX317, MX320, MX321, MX410, MX417, MX421, MX510, MX511, MX517, MX520, MX521, MX522, MX610, MX611, MX617, MX622, MX710, MX711, MX810, MX811, MX812, XM1135, XM1140, XM1145, XM1242, XM1246, XM3150, XM3250, XM5163, XM5170, XM5263, XM5270, XM7155, XM7163, XM7170, XM7263, XM7270
Supplier's details	: Lexmark International, Inc. 740 West New Circle Road Lexington, Ky 40550
e-mail address of person responsible for this SDS	: rcassidy@lexmark.com
Emergency telephone number (with hours of operation)	: 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) 24/7
Section 2. Hazar	ds identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standar (29 CFR 1910.1200).
Classification of the	: COMBUSTIBLE DUSTS

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Response	: Not applicable.
Prevention	: Not applicable.
General	: Read label before use. Keep out of reach of children. If medical advice is needed have product container or label at hand.
Precautionary statements	
Hazard statements	: May form combustible dust concentrations in air.
Signal word	: Warning
GHS label elements	
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2.7%

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Section 2. Hazards identification

Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	: Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture		
Ingredient name	%	CAS number
carbon black	≤10	1333-86-4
Charge Control Agent	≤3	Proprietary
titanium dioxide	≤1	13463-67-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

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

Section 4. First aid measures

Description of necessary 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. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/eff	ec	ts, acute and delayed
Potential acute health effects	<u>s</u>	
Eye contact	1	No known significant effects or critical hazards.
Inhalation	;	No known significant effects or critical hazards.
Skin contact	÷	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/symptoms

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Section 4. First aid measures

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

Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures				
Extinguishing media				
Suitable extinguishing media	: Use dry chemical powder.			
Unsuitable extinguishing media	: Do not use water jet.			
Specific hazards arising from the chemical	: Fine dust clouds may form explosive mixtures with air.			
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides			
Special protective actions 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.			

Section 6. Accidental release measures

Personal precautions, protec	tive	<u>equipment :</u>	t and emergency	<u>procedures</u>				
For non-emergency personnel		Evacuate su entering. Do No flares, sr	nall be taken involv irrounding areas. o not touch or walk moking or flames in respirator when ve quipment.	Keep unneces through spille h hazard area.	ssary and unpro ed material. Sh . Provide adeq	otected perso ut off all igni uate ventilat	onnel from tion sources ion. Wear	3.
For emergency responders	:		d clothing is requirent a suitable and unsuppersonnel".					
Environmental precautions		and sewers.	rsal of spilled mate Inform the releva wers, waterways, s	nt authorities i				
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Section 6. Accidental release measures

Methods and materials 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, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
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.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name			Exposure limits	S		
carbon black titanium dioxide			ACGIH TLV (Un TWA: 3 mg/m ³ fraction NIOSH REL (Ur TWA: 3.5 mg/n TWA: 0.1 mg c OSHA PEL (Uni TWA: 3.5 mg/n OSHA PEL 1989 TWA: 3.5 mg/n ACGIH TLV (Un	8 hours. Form nited States, 1 n ³ 10 hours. of PAHs/cm ³ 10 ited States, 2/ n ³ 8 hours. 9 (United Stat n ³ 8 hours.	n: Inhalable 0/2013). D hours. 2013). es, 3/1989).	
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Section 8. Exposure controls/personal protection

TWA: 10 mg/m ³ 8 hours. OSHA PEL 1989 (United States, 3/1989).
TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 6/2016).
TWA: 15 mg/m ³ 8 hours. Form: Total dust

Appropriate engineering controls	: The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
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.
Individual protection measure	<u>Ires</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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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.

Section 9. Physical and chemical properties

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Boiling point	: Not available.			
Melting point	: Not determined.			
рН	: Not applicable.			
Odor threshold	: Not available.			
Odor	: Faint odor (Plastic.)			
Color	: Black.			
Physical state	: Solid (Finely divided solid.)			
<u>Appearance</u>				

Section 9. Physical and chemical properties

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Flash point	1	Not applicable.
Burning time	:	Not available.
Burning rate	:	Not available.
Evaporation rate	:	Not applicable.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Not applicable.
Vapor pressure	:	Not available.
Vapor density	:	Not applicable.
Relative density	:	Not determined.
Solubility	:	Insoluble in the following materials: cold water and hot water.
Solubility in water	:	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Not available.
Aerosol product		

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
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 grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible materials	: Strong oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
carbon black titanium dioxide	LD50 Oral LD50 Oral	Rat	>15400 mg/kg	-
733/766 Toner	LC50 Inhalation Dusts and mists	Rat Rat	>5000 mg/kg >5000 mg/l	- 4 hours
	LD50 Oral	Rat	>5000 mg/kg	-

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Section 11. Toxicological information

Irritation/Corrosion

No specific data.

Sensitization

No specific data.

Mutagenicity

No specific data.

Conclusion/Summary

Carcinogenicity

No specific data.

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 and titanium dioxide, minor components 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.

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Classification

Product/ingredient name	OSHA	IARC	NTP
carbon black titanium dioxide	-	2B 2B	

: Toner is negative (nonmutagenic) in the Ames assay.

Reproductive toxicity

No specific data.

Teratogenicity

No specific data.

Specific target organ toxicity (single exposure)

No specific data.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
carbon black	Category 1	Not determined	lungs

Aspiration hazard

No specific data.

Information on the likely routes of exposure	: Routes of	of entry anticipated: Derma	I, Inhalation.	
Potential acute health effects				
Eye contact	: No know	n significant effects or criti	cal hazards.	
Inhalation	: No know	n significant effects or criti	cal hazards.	
Skin contact	: No know	n significant effects or criti	cal hazards.	
Ingestion	: No know	n significant effects or criti	cal hazards.	
Symptoms related to the phy	sical, chem	ical and toxicological cha	aracteristics	
Eye contact	: No spec	ific data.		
Inhalation	: No spec	ific data.		
Skin contact	: No spec	ific data.		
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Section 11. Toxicological information

Ingestion

: No specific data.

Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
No specific data.	
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.

Numerical measures of toxicity

Acute toxicity estimates Not available.

Section 12. Ecological information

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Product/ingredient name	Result	Species	Exposure	
carbon black	Acute EC50 37.563 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours	
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours	
	Acute LC50 6.5 mg/l Fresh water	Daphnia - Daphnia pulex - Neonate	48 hours	
	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours	
733/766 Toner	Acute EC50 >1000 mg/l	Daphnia	24 hours	
	Acute EC50 >1000 mg/l	Daphnia	48 hours	

Persistence and degradability

Not available.

Bioaccumulative potential

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

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Section 12. Ecological information

Mobility in soil

Soil/water	partition
coefficient	(Koc)

: Not available.

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ	
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	
UN proper shipping name	-	-	-	-	-	-	
Transport hazard class(es)	-	-	-	-	-	-	
Packing group	-	-	-	-	-	-	
Environmental hazards	No.	No.	No.	No.	No.	No.	
Additional information	-	-	-	-	-	-	

Special precautions for user : 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. Transport in bulk according to Annex II of MARPOL and the IBC Code

Section 15. Regulatory information

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United States					
TSCA (USA)		All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.			
SARA / EPCRA (USA)		None of the ingredients in this product has a final reportable quantity (RQ) under Emergency Planning and Community Right-to Know Act (EPCRA)- Section 302: Extremely Hazardous Substances (EHS) or notification requirements for EHS under Section 304.			
California Prop. 65		This product contains no known materials at levels which the State of California has found to cause cancer, birth defects or other reproductive harm - California Proposition 65.			
International regulations lists	S				
Europe inventory (EINECS)	:	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.			
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.			
Japan inventory (ENCS)	:	All ingredients are listed on the Japanese Existing and New Chemical Substances (ENCS) list, have been registered, or are exempt.			
Australia inventory (AICS)	:	All ingredients are listed in Australian Inventory of Chemical Substances (AICS), have been registered, or are exempt.			
Philippines inventory (PICCS)	:	All ingredients are listed on the Philippines Inventory (PICCS) or are exempt.			
Korea inventory (KECI)	:	All ingredients are listed on the Korean Existing Chemicals List (ECL), have been registered, or are exempt.			
China inventory (IECSC)	:	All ingredients are listed on the Chinese inventory (IECSC) or are exempt.			
Canada					
WHMIS (Canada)	1	Not controlled under WHMIS (Canada).			
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.			
Mexico Classification	:	Health : 1 Flammability : 0 Reactivity : 0			

Section 16. Other information

<u>History</u>	
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Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
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Section 16. Other information

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as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations : HCS (U.S.A.)- Hazard Communication Standard

International transport regulations IATA Dangerous Goods Regulation (DGR) 55th Edition 2014

✓ Indicates information that has changed from previously issued version.

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.