

SDS No. : TNR-C0016-PRN (for US)

PRINTRONIX

SAFETY DATA SHEET

Toner Powder (Cartridge) for

LP844C

LP654C

Printronix, LLC.

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME: Black toner powder (cartridge) for
LP844C, LP654C
(Toner powder name: ODK-11-TH)

PRODUCT CASRN: Mixture

PRODUCT DESCRIPTION: Black Toner

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST MATERIAL USES: For electrophotographic printing systems

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

MANUFACTURER: Oki Electric Industry Co., Ltd.
1-7-12 Toranomom, Minato-ku, Tokyo, 105-8460, Japan Tel:
+81 3-3501-3111

SUPPLIER: Printronix, LLC.
7700 Irvine Center Drive, Suite 700 Irvine, CA 92618 USA

EMERGENCY TELEPHONE NUMBER: Tel. 1-800-665-6210

SECTION 2: HAZARD(S) IDENTIFICATION

PRODUCT CLASSIFICATION per 29 CFR 1910.1200

HAZARD CLASSIFICATION	This product does not satisfy any of the criteria for a hazardous material per the guidelines established by the United Nations (Globally Harmonized System of Classification and Labelling of Chemicals) as specified in 29 CFR 1910.1200 Hazard Communication (2012).
SIGNAL WORD	Not Applicable
HAZARD STATEMENT	Not applicable

RECOMMENDED SAFETY PRECAUTIONS

INJURY PREVENTION	Take all precautions to prevent dispersion of this product in air. Eliminate all sources of ignition. Take precautionary measures against static discharge. Good industrial hygiene practices should be followed when handling this material. Avoid contact with eyes and skin. Do not breathe dusts of this material. Wash thoroughly after handling.
EMERGENCY RESPONSE	IF IN EYES: rinse cautiously with water for 15 minutes. Remove contact lens, if present and easy to do. Continue rinsing. Seek medical attention if necessary IF ON SKIN: gently wash with plenty of soap and water. Call a POISON CONTROL CENTER or doctor if symptoms develop or you feel unwell.
PRODUCT STORAGE	Protect from sun. Store in a well-ventilated room (under 40°C). Guard against accumulations of this material on surfaces. Eliminate all sources of ignition.

SAFETY DATA SHEET

PRODUCT DISPOSAL | DISPOSE of product and containers in accordance with all applicable local, state, federal, and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED

PYROPHORIC GASES | Not applicable

SIMPLE ASPHYXIANTS | Not applicable

COMBUSTIBLE DUST | Product has not been tested for combustibility. However, as similar products are known to be combustible, the potential for this material to combust is a real hazard. All precautions should be taken when handling this product to avoid dispersion of the material in air.

Dust Classification	Minimum Ignition Energy (mJ)	Pmax (bar-g)	Rmax (bar/s)	Kst (bar-m/s)	Explosion Severity
Unknown (material has not been tested for combustibility)					

Definitions for dust classifications are found in OSHA Instruction CPL 03-00-008 Combustible Dust National Emphasis Program (reissued) March 11, 2008, Appendix E, Section 5

Other Known Hazards | None

FOR INFORMATION REGARDING ENVIRONMENTAL GHS CLASSIFICATION, REFER TO SECTION 12 BELOW

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical name	Common Name	CAS number	Concentration (%)
Confidential	Polyester resin	Confidential	Confidential
Carbon black	Carbon black	1333-86-4	1 - 10
Confidential	Wax	Confidential	1 - 5
Confidential	Silica	Confidential	1 – 5

If any items in the table above are described as CONFIDENTIAL, Oki Electric Industry Co., Ltd. considers this information to constitute a Trade Secret.

Where Confidentiality is claimed, see SECTION 15 for further information required under the Government of Canada Hazardous Materials Information Review Act (HMIRA)

SECTION 4: FIRST-AID MEASURES

EYES | Remove contact lens immediately, if present and easy to remove. Immediately flush eyes with plenty of water for at least 15 minutes. If necessary, seek medical attention.

SKIN | Immediately take off all contaminated clothing. Wash affected area with mild soap and water. If irritation persists or other symptoms develop, seek medical attention. If medical attention is not immediately available, contact POISON CONTROL CENTER (1-800-222-1222).

SAFETY DATA SHEET

INGESTION	If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions.
INHALATION	Move person to non-contaminated air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. If tightness or congestion develops, get medical attention.
SYMPTOMS of EXPOSURE	None known.
NOTES to PHYSICIAN	Provide general supportive measures and treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES:	Refer to SECTION 9: Physical and Chemical Properties
HAZARDOUS PRODUCTS of COMBUSTION	Irritating and toxic gases or fumes may be released during a fire.
PROPERTIES THAT COULD INCREASE FIRE or EXPLOSION HAZARD	Dusts at sufficient concentrations can form explosive mixtures with air.
EXTINGUISHING MEDIA	Water spray or powder
FIRE-FIGHTING INSTRUCTIONS	Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA ratings are found in SECTION 16

SECTION 6: ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 1-800-424-9300 or +1-703-741-5970 for international collect calls (in Mexico, call 800-681-9531)

RESPONSE TO SMALL SPILLS OF PRODUCT

SPILL CONTAINMENT	Containment of this material should not be necessary.
SPILL CLEANUP PROCEDURES	Vacuum up the spilled material.
REQUIRED EQUIPMENT	Vacuum or sweep up material and place in a disposal container.
ADDITIONAL INFORMATION	No other spill procedures necessary.

RESPONSE TO LARGE SPILLS OF PRODUCT

SPILL CONTAINMENT	Stop the flow of material, if this is without risk. Contain the discharged material. Remove sources of ignition.
SPILL CLEANUP	Avoid the generation of dusts during clean-up. Use water mist on the spilled material to wet surfaces and prevent dusting. Vacuum or sweep up material and place in a disposal

SAFETY DATA SHEET

PROCEDURES	container. Put material in suitable, covered, labeled containers.
REQUIRED EQUIPMENT	Any equipment which presents a risk of accumulating static electricity should be properly grounded/bonded when used in the clean-up of this material. Wear appropriate protective equipment and clothing during clean-up.
ADDITIONAL INFORMATION	No other spill procedures necessary.

SECTION 7: HANDLING AND STORAGE

HANDLING REQUIREMENTS	DUE TO THE POTENTIAL FOR COMBUSTIBLE DUST EXPLOSION, avoid conditions which may result in formation of a dust cloud. Implement best housekeeping practices to prevent accumulation of this product on surfaces. Do not use compressed air or nitrogen to remove material accumulations from surfaces. Equipment used to remove accumulated product should be protected against static ignition. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid getting this material into contact with your skin and eyes. Do not breathe fumes or dust from this material. Wash thoroughly after handling.
STORAGE REQUIREMENTS	Store in a cool, dry, well-ventilated area. This material can accumulate static charge which may cause spark and become an ignition source. Guard against dust accumulation of this material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Prevent electrostatic charge build-up by using common bonding and grounding techniques.
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PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION	Wear dust goggles.
HAND PROTECTION	Use impervious gloves.
SKIN PROTECTION	Normal work clothing (long sleeved shirts and long pants) is recommended.
RESPIRATORY PROTECTION	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever there may be potential for airborne exposure.

SAFETY DATA SHEET

EXPOSURE LIMITS

CHEMICAL	CASRN	PERCENT	LIMITS	AGENCY
Particulates not otherwise regulated	—	—	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	OSHA
Carbon black	1333-86-4	1 - 10	3.5 mg/m3 TWA	OSHA
Silica, amorphous Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	7631-86-9	1 - 5	20 mppcf TWA; ((80)/(%) SiO2) mg/m3 TWA)	OSHA
Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS)	—	—	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended)	ACGIH
Paraffin wax	8002-74-2	1 - 5	2 mg/m3 TWA (fume)	ACGIH
Carbon black	1333-86-4	1 - 10	3.0 mg/m3 (inhalable fraction), TWA 3 mg/m3 TWA (inhalable particulate matter)	ACGIH

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE @ 20°C	Black Powder	ODOR	No odor
ODOR THRESHOLD	No data available	pH	No data available
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	1.2g/mL @ 20°C
MELTING POINT (°C)	No data available	WATER SOLUBILITY	Insoluble in water
INITIAL BOILING POINT (°C)	No data available	BOILING RANGE (°C)	No data available
PARTITION COEFFICIENT (N-OCTANOL/WATER)	No data available	VISCOSITY	No data available
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	Not evaluated
FLASH POINT (°C)	Not applicable	AUTO-IGNITION TEMPERATURE	No data available
UPPER EXPLOSIVE LIMIT	No data available	LOWER EXPLOSIVE LIMIT	No data available
OTHER DATA	No data available		

SAFETY DATA SHEET

SECTION 10: STABILITY and REACTIVITY

CHEMICAL STABILITY	Stable under normal conditions.
CONDITIONS to AVOID	Avoid ignition sources where dust is produced.
INCOMPATIBLE MATERIALS (Reactivity)	None known.
INCOMPATIBLE MATERIALS (Storage & Transport)	No information available.
HAZARDOUS DECOMPOSITION PRODUCTS	None known.
HAZARDOUS POLYMERIZATION	Will not occur.

SAFETY DATA SHEET

SECTION 11: TOXICOLOGICAL INFORMATION
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ACUTE EFFECTS

EYE EFFECTS	Dust or powder may irritate eye tissue.
SKIN EFFECTS	Not expected to be a primary skin irritant.
ACUTE ORAL EFFECTS (INGESTION)	No significant adverse effects are expected upon ingestion of the product.
ACUTE INHALATION EFFECTS	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
TARGET ORGANS	No known effects.

CHRONIC EFFECTS

MUTAGENICITY	Ames Test (TA98, TA100, TA1535, TA1537, TA1538, WP2uvrA): Negative
TERATOLOGY	No data available for this product.
REPRODUCTIVE and DEVELOPMENTAL TOXICITY	No information available.

CARCINOGENICITY

CHEMICAL NAME	DATA	AGENCY	LIST
Carbon black	Monograph 93 [2010]; Monograph 65 [1996]	IARC	Group 2B Classifiable Carcinogens
Silica, amorphous	Monograph 68 [1997]; Supplement 7 [1987]	IARC	Group 3 Not Classifiable as Carcinogens
Carbon black	Present	OSHA	Select Carcinogens
Carbon black	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	ACGIH	Threshold Limit Values – Carcinogens

None of the components of this product are listed on the NTP Known or Suspected Carcinogens List.

LETHAL DOSE (LD50 & LC50) DATA

LD50 ORAL	LD50 Oral Rat > 2000 mg/kg
LD50 DERMAL	No information available
LC50 INHALATION	LC50 Inhalation Rat > 5.07 mg/L/4 hour dusts, mists, fumes
MEDICAL CONDITIONS AGGRAVATED by EXPOSURE	Inhalation of this product may aggravate existing conditions of the respiratory system such as asthma or bronchitis
ROUTES of ENTRY	Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.
OTHER TOXICOLOGICAL INFORMATION	Skin Corrosion/Irritation: Rabbit, 100%, 4 hr. semi-occluded application (OECD404): Non Irritant Serious Eye Damage/Irritation: Rabbit, 100%, OECD Guidelines No.405: Non Irritant Skin Sensitization: Mouse Local Lymph Node Assay (LLNA, OECD429) : Negative SPECIFIC TARGET ORGAN TOXICITY (SE): wax - category 3 (respiratory tract irritant)

SAFETY DATA SHEET

SECTION 12: ECOLOGICAL INFORMATION

UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION

AQUATIC TOXICITY CLASSIFICATION	Not classified as hazardous to aquatic environment
SIGNAL WORD	Not applicable
HAZARD PICTOGRAM	Not applicable
HAZARD STATEMENT	Not applicable
PREVENTION	Not applicable
RESPONSE	Not applicable
DISPOSAL	Not applicable

ADDITIONAL ENVIRONMENTAL INFORMATION

AQUATIC TOXICITY (fish)	No information available.
AQUATIC TOXICITY (crustacean)	No information available.
AQUATIC TOXICITY (algae)	No information available.
ECOTOXICITY INFORMATION	None determined
ENVIRONMENTAL FATE	No data available for this product.
BIOLOGICAL OXYGEN DEMAND (BOD5), g/g	No data available
CHEMICAL OXYGEN DEMAND (COD), g/g	No data available
PERSISTENCE & DEGRADABILITY	No information available.
BIOACCUMULATION	No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.
GENERAL DISPOSAL CONSIDERATIONS	Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
DISPOSAL of EMPTY CONTAINERS	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

RCRA COMPONENT	CASRN	DATA
No limits established for this product.		

SECTION 14: TRANSPORT INFORMATION

US DOT CLASSIFICATION (49 CFR §172.101)

UN NUMBER	UN PROPER SHIPPING NAME	TECHNICAL NAME	HAZARD CLASS	PACKING GROUP	SHIPPING PLACARDS
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Not Regulated in Transportation

MARINE POLLUTANT	Not applicable
SPECIAL PROVISIONS (§172.102)	Not applicable
PACKAGING, BULK (§173.***)	Not applicable
PACKAGING, NON-BULK (§173.***)	Not applicable
PACKAGING, EXCEPTIONS (§173.***)	Not applicable
QUANTITY LIMITATION, PASSENGER AIR/RAIL	Not applicable
QUANTITY LIMITATION, CARGO AIR	Not applicable
VESSEL STOWAGE, GENERAL	Not applicable
VESSEL STOWAGE SPECIAL	Not applicable
REPORTABLE QUANTITY (RQ)	No reportable quantity for this product
EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE	Not applicable

INTERNATIONAL BULK SHIPPING REQUIREMENTS (MARPOL 73/78)

SHIPPING NAME	No information available
SHIP TYPE	No information available
POLLUTION CATEGORY	No information available

OTHER REGULATORY CLASSIFICATION INFORMATION

	IATA	IMDG
PROPER SHIPPING NAME	Non-hazardous material	Non-hazardous material
HAZARD CLASS	Not applicable	Not applicable
PACKING GROUP	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)	This product is listed on the U.S. EPA TSCA Inventory.
TSCA 12b EXPORT NOTIFICATION (US)	This product is not subject to TSCA 12B Export Notification requirements.
SIGNIFICANT NEW USE RULE (US)	This material is not subject to a Significant New Use Rule under the US Toxic Substances Control Act.
TSCA 8b INVENTORY RESET STATUS (US)	All substances present in this product have been designated as commercially ACTIVE on the United States TSCA inventory {15 U.S.C. §2607(b)(4)}
DOMESTIC SUBSTANCE LIST (DSL - CA)	This product contains components which have not been notified to the Canadian Environmental Protection Agency for inclusion on the Domestic Substance List.
HAZARDOUS MATERIALS INFORMATION REVIEW ACT (CA)	This product does not contain any materials for which a Confidential Business Information claim has been filed with Health Canada. Filing Date: Not applicable Reference Number: Not applicable
SIGNIFICANT NEW USE ACTIVITIES (CA)	The product contains no regulated components
NATIONAL INVENTORY of CHEMICAL SUBSTANCES (MX)	This material is not listed on the National Inventory of Chemical Substances (INSQ) of Mexico.

INTERNATIONAL CHEMICAL INVENTORIES

All of the components of this product are listed on the following inventories:

ENCS	Japan	Yes	
REACH	Europe	Not evaluated	
EINECS	Europe	Yes	
ELINCS	Europe	No	
IECSC	China	No	Simplified Notification (polymer)
PICCS	Philippines	No	
ECL	Korea	No	Exemption for Examination
AICS	Australia	Yes	
TCSI	Taiwan	Yes	

APPLICABLE UNITED STATES FEDERAL and STATE REGULATIONS

EMERGENCY PLANNING and COMMUNITY RIGHT TO KNOW ACT (EPCRA) 40 CFR PART 355, APPENDIX A

EHS COMPONENT	CASRN	PERCENT	TPQ POUNDS and RQ
The product contains no regulated components			

SAFETY DATA SHEET

313 COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no regulated components			

CERCLA/SARA COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no regulated components			

EPCRA SECTION 311/312 CLASSIFICATION	ACUTE	No
	CHRONIC	No
	FIRE	No
	PRESSURE	No
	REACTIVE	No

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT HON-RULE FOR SOCM1 CHEMICALS

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT (VOCS IN SOCM1 CHEMICALS)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT AS HAZARDOUS AIR POLLUTANTS (HAP)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT HON-RULE HAZARDOUS AIR POLLUTANTS (HAP)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN WATER ACT

COMPONENT NAME	CASRN	LIST NAME
No limits established for this product.		

STATE RIGHT-TO-KNOW INFORMATION

COMPONENT NAME	CASRN	STATE	LIST NAME
Paraffin wax	8002-74-2	Massachusetts	Right-to-Know List
Carbon black	1333-86-4	Massachusetts	Right-to-Know List
Carbon black	1333-86-4	New Jersey	Special Hazardous Substance List
Paraffin wax	8002-74-2	New Jersey	Right-to-Know List
Carbon black	1333-86-4	New Jersey	Right-to-Know List
Paraffin waxes and Hydrocarbon waxes	8002-74-2	Pennsylvania	Right-to-Know List
Carbon black	1333-86-4	Pennsylvania	Right-to-Know List

If the STATE RIGHT-TO-KNOW INFORMATION table above is empty than none of the components of this product are included on the state right-to-know regulatory lists for Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.

CALIFORNIA SAFE WATER and TOXIC ENFORCEMENT ACT of 1986 (Proposition 65)

COMPONENT NAME	CASRN	CONCENTRATION [‡]	LIST DATA
Carbon black	1333-86-4	1 - 10 (max)	carcinogen, 2/21/2003 (airborne, unbound particles of respirable size)

[‡] CONCENTRATIONS EXPRESSED IN % UNLESS UNITS ARE SPECIFIED

APPLICABLE REGULATIONS OF THE GOVERNMENT OF CANADA

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE CANADIAN WHMIS INGREDIENT DISCLOSURE LIST (IDL)

COMPONENT	CASRN	PERCENT	MINIMUM CONCENTRATION
Carbon black	1333-86-4	1 - 10	1 %

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE REVISED IN-COMMERCE LIST (R-ICL)

COMPONENT	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE ENVIRONMENTAL EMERGENCIES LIST

COMPONENT	CASRN
The product contains no regulated components	

APPLICABLE REGULATIONS OF THE GOVERNMENT OF MEXICO

ECOLOGICAL CRITERIA FOR WATER QUALITY

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Protection of Marine Water
The product contains no regulated components				Protection of Fresh Water
The product contains no regulated components				Agricultural Irrigation
The product contains no regulated components				Drinking Water Supply Source

POLLUTION RELEASE AND TRANSFER REGISTER

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Reporting Emissions Threshold
The product contains no regulated components				Manufacturing, Processing Use Threshold

THRESHOLD QUANTITIES OF HAZARDOUS CHEMICALS

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Workplace Threshold

SECRETARIAT OF LABOR AND SOCIAL WELFARE (STPS) - EXPOSURE LIMITS

SAFETY DATA SHEET

COMPONENT	CASRN	DATA	LIST
Negro de humo	1333-86-4	3 mg/m3 TWA VLE-PPT (inhalable fraction)	TWA LIMIT
Parafina	8002-74-2	2 mg/m3 TWA VLE-PPT (fume)	TWA LIMIT
Partículas insolubles o poco solubles no especificadas de otra manera	—	10 mg/m3 TWA VLE-PPT (inhalable fraction); 3 mg/m3 TWA VLE-PPT (respirable fraction)	TWA LIMIT
The product contains no regulated components			STEL LIMITS
The product contains no regulated components			CEILING LIMITS
The product contains no regulated components			SKIN DESIGNATION
Negro de humo	1333-86-4	A3 - Confirmed animal carcinogen	CARCINOGENS

SECTION 16: Other information

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

Hazardous Material Identification System (HMIS) Hazard Ratings

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0
PERSONAL PROTECTION	D

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME: Yellow toner powder (cartridge) for LP844C, LP654C
(Toner powder name: ODY-11-NH)

PRODUCT CASRN: Mixture

PRODUCT DESCRIPTION: Yellow Toner

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST MATERIAL USES: For electrophotographic printing systems

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

MANUFACTURER: Oki Electric Industry Co., Ltd.
1-7-12 Toranomon, Minato-ku, Tokyo, 105-8460, Japan
Tel: +81 3-3501-3111

SUPPLIER: Printronix, LLC.
7700 Irvine Center Drive, Suite 700 Irvine, CA 92618 USA

EMERGENCY TELEPHONE NUMBER: Tel. 1-800-665-6210

SECTION 2: HAZARD(S) IDENTIFICATION

PRODUCT CLASSIFICATION per 29 CFR 1910.1200

HAZARD CLASSIFICATION	This product does not satisfy any of the criteria for a hazardous material per the guidelines established by the United Nations (Globally Harmonized System of Classification and Labelling of Chemicals) as specified in 29 CFR 1910.1200 Hazard Communication (2012).
SIGNAL WORD	Not Applicable
HAZARD STATEMENT	Not applicable

RECOMMENDED SAFETY PRECAUTIONS

INJURY PREVENTION	Take all precautions to prevent dispersion of this product in air. Eliminate all sources of ignition. Take precautionary measures against static discharge. Good industrial hygiene practices should be followed when handling this material. Avoid contact with eyes and skin. Do not breathe dusts of this material. Wash thoroughly after handling.
EMERGENCY RESPONSE	IF IN EYES: rinse cautiously with water for 15 minutes. Remove contact lens, if present and easy to do. Continue rinsing. Seek medical attention if necessary IF ON SKIN: gently wash with plenty of soap and water. Call a POISON CONTROL CENTER or doctor if symptoms develop or you feel unwell.
PRODUCT STORAGE	Protect from sun. Store in a well-ventilated room (under 40°C). Guard against accumulations of this material on surfaces. Eliminate all sources of ignition.

SAFETY DATA SHEET

PRODUCT DISPOSAL | DISPOSE of product and containers in accordance with all applicable local, state, federal, and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED

PYROPHORIC GASES | Not applicable

SIMPLE ASPHYXIANTS | Not applicable

COMBUSTIBLE DUST | Product has not been tested for combustibility. However, as similar products are known to be combustible, the potential for this material to combust is a real hazard. All precautions should be taken when handling this product to avoid dispersion of the material in air.

Dust Classification	Minimum Ignition Energy (mJ)	Pmax (bar-g)	Rmax (bar/s)	Kst (bar-m/s)	Explosion Severity
Unknown (material has not been tested for combustibility)					

Definitions for dust classifications are found in OSHA Instruction CPL 03-00-008 Combustible Dust National Emphasis Program (reissued) March 11, 2008, Appendix E, Section 5

Other Known Hazards | None

FOR INFORMATION REGARDING ENVIRONMENTAL GHS CLASSIFICATION, REFER TO SECTION 12 BELOW

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical name	Common Name	CAS number	Concentration (%)
Confidential	Polyester resin	Confidential	Confidential
Confidential	Wax	Confidential	1 - 5
Confidential	Silica	Confidential	1 – 5
Confidential	Pigment	Confidential	Confidential
Confidential	Zinc alkyl salicylate	Confidential	Confidential

If any items in the table above are described as CONFIDENTIAL, Oki Electric Industry Co., Ltd. considers this information to constitute a Trade Secret.

Where Confidentiality is claimed, see SECTION 15 for further information required under the Government of Canada Hazardous Materials Information Review Act (HMIRA)

SECTION 4: FIRST-AID MEASURES

EYES | Remove contact lens immediately, if present and easy to remove. Immediately flush eyes with plenty of water for at least 15 minutes. If necessary, seek medical attention.

SKIN | Immediately take off all contaminated clothing. Wash affected area with mild soap and water. If irritation persists or other symptoms develop, seek medical attention. If medical attention

SAFETY DATA SHEET

INGESTION	is not immediately available, contact POISON CONTROL CENTER (1-800-222-1222).
INHALATION	Move person to non-contaminated air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. If tightness or congestion develops, get medical attention.
SYMPTOMS of EXPOSURE	None known.
NOTES to PHYSICIAN	Provide general supportive measures and treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES:	Refer to SECTION 9: Physical and Chemical Properties
HAZARDOUS PRODUCTS of COMBUSTION	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
PROPERTIES THAT COULD INCREASE FIRE or EXPLOSION HAZARD	Dusts at sufficient concentrations can form explosive mixtures with air.
EXTINGUISHING MEDIA	Water spray or powder
FIRE-FIGHTING INSTRUCTIONS	Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA ratings are found in SECTION 16

SECTION 6: ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 1-800-424-9300 or +1-703-741-5970 for international collect calls (in Mexico, call 800-681-9531)

RESPONSE TO SMALL SPILLS OF PRODUCT

SPILL CONTAINMENT	Containment of this material should not be necessary.
SPILL CLEANUP PROCEDURES	Vacuum up the spilled material.
REQUIRED EQUIPMENT	Vacuum or sweep up material and place in a disposal container.
ADDITIONAL INFORMATION	No other spill procedures necessary.

RESPONSE TO LARGE SPILLS OF PRODUCT

SPILL CONTAINMENT	Stop the flow of material, if this is without risk. Contain the discharged material. Remove sources of ignition.
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SAFETY DATA SHEET

SPILL CLEANUP PROCEDURES

Vacuum or sweep up material and place in a disposal container. Avoid the generation of dusts during clean-up. Dispose of spent absorbent in an approved industrial waste landfill.

REQUIRED EQUIPMENT

Any equipment which presents a risk of accumulating static electricity should be properly grounded/bonded when used in the clean-up of this material. Wear appropriate protective equipment and clothing during clean-up.

ADDITIONAL INFORMATION

No other spill procedures necessary.

SECTION 7: HANDLING AND STORAGE

HANDLING REQUIREMENTS

DUE TO THE POTENTIAL FOR COMBUSTIBLE DUST EXPLOSION, avoid conditions which may result in formation of a dust cloud. Implement best housekeeping practices to prevent accumulation of this product on surfaces. Do not use compressed air or nitrogen to remove material accumulations from surfaces. Equipment used to remove accumulated product should be protected against static ignition. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid getting this material into contact with your skin and eyes. Do not breathe fumes or dust from this material. Wash thoroughly after handling.

STORAGE REQUIREMENTS

Store in a cool, dry, well-ventilated area.
This material can accumulate static charge which may cause spark and become an ignition source.
Guard against dust accumulation of this material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION

Wear dust goggles.

HAND PROTECTION

Use impervious gloves.

SKIN PROTECTION

Normal work clothing (long sleeved shirts and long pants) is recommended.

RESPIRATORY PROTECTION

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever there may be potential for airborne exposure.

EXPOSURE LIMITS

CHEMICAL	CASRN	PERCENT	LIMITS	AGENCY
Particulates not otherwise regulated	—	—	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	OSHA
Silica, amorphous Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	7631-86-9	1 - 5	20 mppcf TWA; ((80)/(% SiO2) mg/m3 TWA)	OSHA
Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS)	—	—	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended)	ACGIH
Paraffin wax	8002-74-2	1 - 5	2 mg/m3 TWA (fume)	ACGIH

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE @ 20°C	Yellow Powder	ODOR	No odor
ODOR THRESHOLD	No data available	pH	No data available
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	1.2g/mL @ 20°C
MELTING POINT (°C)	No data available	WATER SOLUBILITY	Insoluble in water
INITIAL BOILING POINT (°C)	No data available	BOILING RANGE (°C)	No data available
PARTITION COEFFICIENT (N-OCTANOL/WATER)	No data available	VISCOSITY	No data available
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	Not evaluated
FLASH POINT (°C)	Not applicable	AUTO-IGNITION TEMPERATURE	No data available
UPPER EXPLOSIVE LIMIT	No data available	LOWER EXPLOSIVE LIMIT	No data available
OTHER DATA	No data available		

SECTION 10: STABILITY and REACTIVITY

CHEMICAL STABILITY	Stable under normal conditions.
CONDITIONS to AVOID	Avoid ignition sources where dust is produced.
INCOMPATIBLE MATERIALS (Reactivity)	None known.
INCOMPATIBLE MATERIALS (Storage & Transport)	No information available.
HAZARDOUS DECOMPOSITION PRODUCTS	None known.
HAZARDOUS POLYMERIZATION	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION**ACUTE EFFECTS**

EYE EFFECTS	Dust or powder may irritate eye tissue.
SKIN EFFECTS	Not expected to be a primary skin irritant.
ACUTE ORAL EFFECTS (INGESTION)	Not a likely route of entry.
ACUTE INHALATION EFFECTS	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
TARGET ORGANS	No known effects.

CHRONIC EFFECTS

MUTAGENICITY	Ames Test (TA98, TA100, TA1535, TA1537, TA1538, WP2uvrA) : Negative
TERATOLOGY	No data available for this product.
REPRODUCTIVE and DEVELOPMENTAL TOXICITY	No information available.

CARCINOGENICITY

CHEMICAL NAME	DATA	AGENCY	LIST
Silica, amorphous	Monograph 68 [1997]; Supplement 7 [1987]	IARC	Group 3 Not Classifiable as Carcinogens

None of the components of this product are listed on the OSHA Possible or Select Carcinogens Lists.

None of the components of this product are listed on the ACGIH Carcinogens List.

None of the components of this product are listed on the NTP Known or Suspected Carcinogens List.

LETHAL DOSE (LD50 & LC50) DATA

LD50 ORAL	LD50 Oral Rat > 2000 mg/kg
LD50 DERMAL	No information available
LC50 INHALATION	LC50 Inhalation Rat > 5.07 mg/L/4 hour dusts, mists, fumes
MEDICAL CONDITIONS AGGRAVATED by EXPOSURE	Inhalation of this product may aggravate existing conditions of the respiratory system such as asthma or bronchitis
ROUTES of ENTRY	Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.
OTHER TOXICOLOGICAL INFORMATION	Skin Corrosion/Irritation: Rabbit, 100%, 4 hr. semi-occluded application (OECD404): Non Irritant Serious Eye Damage/Irritation: Rabbit, 100%, OECD Guidelines No.405: Non Irritant Skin Sensitization: Mouse Local Lymph Node Assay (LLNA, OECD429) : Negative SPECIFIC TARGET ORGAN TOXICITY (SE): wax - category 3 (respiratory tract irritation)

SECTION 12: ECOLOGICAL INFORMATION**UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION**

AQUATIC TOXICITY CLASSIFICATION	Chronic 3
SIGNAL WORD	Not applicable
HAZARD PICTOGRAM	Not applicable
HAZARD STATEMENT	Harmful to aquatic life with long lasting effects
PREVENTION	Avoid release to the environment.
RESPONSE	Not applicable
DISPOSAL	Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

ADDITIONAL ENVIRONMENTAL INFORMATION

AQUATIC TOXICITY (fish)	No information available.
AQUATIC TOXICITY (crustacean)	48 hr EC50 daphnia magna > 100 mg/L (data on similar product)
AQUATIC TOXICITY (algae)	No information available.
ECOTOXICITY INFORMATION	None determined
ENVIRONMENTAL FATE	No data available for this product.
BIOLOGICAL OXYGEN DEMAND (BOD5), g/g	No data available
CHEMICAL OXYGEN DEMAND (COD), g/g	No data available
PERSISTENCE & DEGRADABILITY	No information available.
BIOACCUMULATION	No information available.

SAFETY DATA SHEET

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.
GENERAL DISPOSAL CONSIDERATIONS	Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
DISPOSAL of EMPTY CONTAINERS	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

RCRA COMPONENT	CASRN	DATA
No limits established for this product.		

SECTION 14: TRANSPORT INFORMATION

US DOT CLASSIFICATION (49 CFR §172.101)

UN NUMBER	UN PROPER SHIPPING NAME	TECHNICAL NAME	HAZARD CLASS	PACKING GROUP	SHIPPING PLACARDS
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Not Regulated in Transportation

SPECIAL PROVISIONS (§172.102)	Not applicable
PACKAGING, BULK (§173.***)	Not applicable
PACKAGING, NON-BULK (§173.***)	Not applicable
PACKAGING, EXCEPTIONS (§173.***)	Not applicable
QUANTITY LIMITATION, PASSENGER AIR/RAIL	Not applicable
QUANTITY LIMITATION, CARGO AIR	Not applicable
VESSEL STOWAGE, GENERAL	Not applicable
VESSEL STOWAGE SPECIAL	Not applicable
REPORTABLE QUANTITY (RQ)	No reportable quantity for this product
EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE	Not applicable

INTERNATIONAL BULK SHIPPING REQUIREMENTS (MARPOL 73/78)

SHIPPING NAME	No information available
SHIP TYPE	No information available
POLLUTION CATEGORY	No information available

OTHER REGULATORY CLASSIFICATION INFORMATION

	IATA	IMDG
PROPER SHIPPING NAME	Non-hazardous material	Non-hazardous material
HAZARD CLASS	Not applicable	Not applicable
PACKING GROUP	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)	This product is listed on the U.S. EPA TSCA Inventory.
TSCA 12b EXPORT NOTIFICATION (US)	This product is not subject to TSCA 12B Export Notification requirements.
SIGNIFICANT NEW USE RULE (US)	This material is not subject to a Significant New Use Rule under the US Toxic Substances Control Act.
TSCA 8b INVENTORY RESET STATUS (US)	All substances present in this product have been designated as commercially ACTIVE on the United States TSCA inventory {15 U.S.C. §2607(b)(4)}
DOMESTIC SUBSTANCE LIST (DSL - CA)	This product contains components which have not been notified to the Canadian Environmental Protection Agency for inclusion on the Domestic Substance List.
HAZARDOUS MATERIALS INFORMATION REVIEW ACT (CA)	This product does not contain any materials for which a Confidential Business Information claim has been filed with Health Canada. Filing Date: Not applicable Reference Number: Not applicable
SIGNIFICANT NEW USE ACTIVITIES (CA)	The product contains no regulated components
NATIONAL INVENTORY of CHEMICAL SUBSTANCES (MX)	This material is not listed on the National Inventory of Chemical Substances (INSQ) of Mexico.

INTERNATIONAL CHEMICAL INVENTORIES

All of the components of this product are listed on the following inventories:

ENCS	Japan	Yes	
REACH	Europe	Not evaluated	
EINECS	Europe	Yes	
ELINCS	Europe	No	
IECSC	China	No	Simplified Notification (polymer)
PICCS	Philippines	No	
ECL	Korea	No	Exemption for Examination
AICS	Australia	Yes	
TCSI	Taiwan	Yes	

APPLICABLE UNITED STATES FEDERAL and STATE REGULATIONS

EMERGENCY PLANNING and COMMUNITY RIGHT TO KNOW ACT (EPCRA) 40 CFR PART 355, APPENDIX A

EHS COMPONENT	CASRN	PERCENT	TPQ POUNDS and RQ
The product contains no regulated components			
313 COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no regulated components			

CERCLA/SARA COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no regulated components			

EPCRA SECTION 311/312 CLASSIFICATION	ACUTE	No	
	CHRONIC	No	
	FIRE	No	
	PRESSURE	No	
	REACTIVE	No	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT HON-RULE FOR SOCM I CHEMICALS

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT (VOCS IN SOCM I CHEMICALS)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT AS HAZARDOUS AIR POLLUTANTS (HAP)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT HON-RULE HAZARDOUS AIR POLLUTANTS (HAP)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN WATER ACT

COMPONENT NAME	CASRN	LIST NAME
No limits established for this product.		

STATE RIGHT-TO-KNOW INFORMATION

COMPONENT NAME	CASRN	STATE	LIST NAME
Paraffin wax	8002-74-2	Massachusetts	Right-to-Know List
Paraffin wax	8002-74-2	New Jersey	Right-to-Know List
Paraffin waxes and Hydrocarbon waxes	8002-74-2	Pennsylvania	Right-to-Know List

If the STATE RIGHT-TO-KNOW INFORMATION table above is empty than none of the components of this product are included on the state right-to-know regulatory lists for Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.

CALIFORNIA SAFE WATER and TOXIC ENFORCEMENT ACT of 1986 (Proposition 65)

COMPONENT NAME	CASRN	CONCENTRATION [‡]	LIST DATA
This product contains no components which are listed on California's Proposition 65 lists.			

[‡] CONCENTRATIONS EXPRESSED IN % UNLESS UNITS ARE SPECIFIED

APPLICABLE REGULATIONS OF THE GOVERNMENT OF CANADA

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE CANADIAN WHMIS INGREDIENT DISCLOSURE LIST (IDL)

COMPONENT	CASRN	PERCENT	MINIMUM CONCENTRATION
The product contains no regulated components			

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE REVISED IN-COMMERCE LIST (R-ICL)

COMPONENT	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE ENVIRONMENTAL EMERGENCIES LIST

COMPONENT	CASRN
The product contains no regulated components	

APPLICABLE REGULATIONS OF THE GOVERNMENT OF MEXICO

ECOLOGICAL CRITERIA FOR WATER QUALITY

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Protection of Marine Water
The product contains no regulated components				Protection of Fresh Water
The product contains no regulated components				Agricultural Irrigation
The product contains no regulated components				Drinking Water Supply Source

POLLUTION RELEASE AND TRANSFER REGISTER

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Reporting Emissions Threshold
The product contains no regulated components				Manufacturing, Processing Use Threshold

THRESHOLD QUANTITIES OF HAZARDOUS CHEMICALS

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Workplace Threshold

SECRETARIAT OF LABOR AND SOCIAL WELFARE (STPS) - EXPOSURE LIMITS

COMPONENT	CASRN	DATA	LIST
Parafina	8002-74-2	2 mg/m ³ TWA VLE-PPT (fume)	TWA LIMIT
Partículas insolubles o poco solubles no especificadas de otra manera	—	10 mg/m ³ TWA VLE-PPT (inhalable fraction); 3 mg/m ³ TWA VLE-PPT (respirable fraction)	TWA LIMIT
The product contains no regulated components			STEL LIMITS
The product contains no regulated components			CEILING LIMITS
The product contains no regulated components			SKIN DESIGNATION
The product contains no regulated components			CARCINOGENS

SECTION 16: Other information

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

Hazardous Material Identification System (HMIS) Hazard Ratings

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0
PERSONAL PROTECTION	D

SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME: Magenta toner powder (cartridge) for LP844C, LP654C
(Toner powder name: ODM-11-FH)

PRODUCT CASRN: Mixture

PRODUCT DESCRIPTION: Magenta Toner

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

MATERIAL USES: For electrophotographic printing systems

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

MANUFACTURER: Oki Electric Industry Co., Ltd.
1-7-12 Toranomom, Minato-ku, Tokyo, 105-8460, Japan Tel: +81 3-3501-3111

SUPPLIER: Printronix, LLC.
7700 Irvine Center Drive, Suite 700 Irvine, CA 92618 USA

EMERGENCY TELEPHONE NUMBER: Tel.1-800-665-6210

SECTION 2: HAZARD(S) IDENTIFICATION

PRODUCT CLASSIFICATION per 29 CFR 1910.1200

HAZARD CLASSIFICATION	This product does not satisfy any of the criteria for a hazardous material per the guidelines established by the United Nations (Globally Harmonized System of Classification and Labelling of Chemicals) as specified in 29 CFR 1910.1200 Hazard Communication (2012).
SIGNAL WORD	Not Applicable
HAZARD STATEMENT	Not applicable

RECOMMENDED SAFETY PRECAUTIONS

INJURY PREVENTION	Take all precautions to prevent dispersion of this product in air. Eliminate all sources of ignition. Take precautionary measures against static discharge. Good industrial hygiene practices should be followed when handling this material. Avoid contact with eyes and skin. Do not breathe dusts of this material. Wash thoroughly after handling.
EMERGENCY RESPONSE	IF IN EYES: rinse cautiously with water for 15 minutes. Remove contact lens, if present and easy to do. Continue rinsing. Seek medical attention if necessary IF ON SKIN: gently wash with plenty of soap and water. Call a POISON CONTROL CENTER or doctor if symptoms develop or you feel unwell.
PRODUCT STORAGE	Protect from sun. Store in a well-ventilated room (under 40°C). Guard against accumulations of this material on surfaces.

SAFETY DATA SHEET

Eliminate all sources of ignition.

PRODUCT DISPOSAL | DISPOSE of product and containers in accordance with all applicable local, state, federal, and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED

PYROPHORIC GASES | Not applicable

SIMPLE ASPHYXIANTS | Not applicable

COMBUSTIBLE DUST | Product has not been tested for combustibility. However, as similar products are known to be combustible, the potential for this material to combust is a real hazard. All precautions should be taken when handling this product to avoid dispersion of the material in air.

Dust Classification	Minimum Ignition Energy (mJ)	Pmax (bar-g)	Rmax (bar/s)	Kst (bar-m/s)	Explosion Severity
Unknown (material has not been tested for combustibility)					

Definitions for dust classifications are found in OSHA Instruction CPL 03-00-008 Combustible Dust National Emphasis Program (reissued) March 11, 2008, Appendix E, Section 5

Other Known Hazards | None

FOR INFORMATION REGARDING ENVIRONMENTAL GHS CLASSIFICATION, REFER TO SECTION 12 BELOW

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical name	Common Name	CAS number	Concentration (%)
Confidential	Polyester resin	Confidential	Confidential
Confidential	Wax	Confidential	1 - 5
Confidential	Silica	Confidential	1 – 5
Confidential	Pigment	Confidential	Confidential
Confidential	Zinc alkyl salicylate	Confidential	Confidential

If any items in the table above are described as CONFIDENTIAL, Oki Electric Industry Co., Ltd. considers this information to constitute a Trade Secret.

Where Confidentiality is claimed, see SECTION 15 for further information required under the Government of Canada Hazardous Materials Information Review Act (HMIRA)

SECTION 4: FIRST-AID MEASURES

EYES | Remove contact lens immediately, if present and easy to remove. Immediately flush eyes with plenty of water for at least 15 minutes. If necessary, seek medical attention.

SKIN | Immediately take off all contaminated clothing. Wash affected area with mild soap and water.

SAFETY DATA SHEET

INGESTION	If irritation persists or other symptoms develop, seek medical attention. If medical attention is not immediately available, contact POISON CONTROL CENTER (1-800-222-1222).
INHALATION	If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions.
SYMPTOMS of EXPOSURE	None known.
NOTES to PHYSICIAN	Provide general supportive measures and treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES:	Refer to SECTION 9: Physical and Chemical Properties
HAZARDOUS PRODUCTS of COMBUSTION	Irritating and toxic gases or fumes may be released during a fire.
PROPERTIES THAT COULD INCREASE FIRE or EXPLOSION HAZARD	Dusts at sufficient concentrations can form explosive mixtures with air.
EXTINGUISHING MEDIA	Water spray or powder
FIRE-FIGHTING INSTRUCTIONS	Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA ratings are found in SECTION 16

SECTION 6: ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 1-800-424-9300 or +1-703-741-5970 for international collect calls (in Mexico, call 800-681-9531)

RESPONSE TO SMALL SPILLS OF PRODUCT

SPILL CONTAINMENT	Containment of this material should not be necessary.
SPILL CLEANUP PROCEDURES	Vacuum up the spilled material.
REQUIRED EQUIPMENT	Vacuum or sweep up material and place in a disposal container.
ADDITIONAL INFORMATION	No other spill procedures necessary.

RESPONSE TO LARGE SPILLS OF PRODUCT

SPILL CONTAINMENT	Stop the flow of material, if this is without risk. Contain the discharged material. Remove sources of ignition.
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SAFETY DATA SHEET

SPILL CLEANUP PROCEDURES

Avoid the generation of dusts during clean-up. Use water mist on the spilled material to wet surfaces and prevent dusting. Vacuum or sweep up material and place in a disposal container. Put material in suitable, covered, labeled containers.

REQUIRED EQUIPMENT

Any equipment which presents a risk of accumulating static electricity should be properly grounded/bonded when used in the clean-up of this material. Wear appropriate protective equipment and clothing during clean-up.

ADDITIONAL INFORMATION

No other spill procedures necessary.

SECTION 7: HANDLING AND STORAGE

HANDLING REQUIREMENTS

DUE TO THE POTENTIAL FOR COMBUSTIBLE DUST EXPLOSION, avoid conditions which may result in formation of a dust cloud. Implement best housekeeping practices to prevent accumulation of this product on surfaces. Do not use compressed air or nitrogen to remove material accumulations from surfaces. Equipment used to remove accumulated product should be protected against static ignition. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid getting this material into contact with your skin and eyes. Do not breathe fumes or dust from this material. Wash thoroughly after handling.

STORAGE REQUIREMENTS

Store in a cool, dry, well-ventilated area.
 This material can accumulate static charge which may cause spark and become an ignition source.
 Guard against dust accumulation of this material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Prevent electrostatic charge build-up by using common bonding and grounding techniques.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION

Wear dust goggles.

HAND PROTECTION

Use impervious gloves.

SKIN PROTECTION

Normal work clothing (long sleeved shirts and long pants) is recommended.

RESPIRATORY PROTECTION

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever there may be potential for airborne exposure.

OTHER

Eyewash fountains and emergency showers are required.

EXPOSURE LIMITS

CHEMICAL	CASRN	PERCENT	LIMITS	AGENCY
Particulates not otherwise regulated	—	—	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	OSHA
Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS)	—	—	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended)	ACGIH
Paraffin wax	8002-74-2	1 - 5	2 mg/m3 TWA (fume)	ACGIH

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE @ 20°C	MagentaPowder	ODOR	No odor
ODOR THRESHOLD	No data available	pH	No data available
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	1.2g/mL @ 20°C
MELTING POINT (°C)	No data available	WATER SOLUBILITY	Insoluble in water
INITIAL BOILING POINT (°C)	No data available	BOILING RANGE (°C)	No data available
PARTITION COEFFICIENT (N-OCTANOL/WATER)	No data available	VISCOSITY	No data available
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	Not evaluated
FLASH POINT (°C)	Not applicable	AUTO-IGNITION TEMPERATURE	No data available
UPPER EXPLOSIVE LIMIT	No data available	LOWER EXPLOSIVE LIMIT	No data available
OTHER DATA	No data available		

SAFETY DATA SHEET

SECTION 10: STABILITY and REACTIVITY

CHEMICAL STABILITY	Stable under normal conditions.
CONDITIONS to AVOID	Avoid ignition sources where dust is produced.
INCOMPATIBLE MATERIALS (Reactivity)	None known.
INCOMPATIBLE MATERIALS (Storage & Transport)	No information available.
HAZARDOUS DECOMPOSITION PRODUCTS	None known.
HAZARDOUS POLYMERIZATION	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

EYE EFFECTS	Dust or powder may irritate eye tissue.
SKIN EFFECTS	Not expected to be a primary skin irritant.
ACUTE ORAL EFFECTS (INGESTION)	Not a likely route of entry.
ACUTE INHALATION EFFECTS	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
TARGET ORGANS	No known effects.

CHRONIC EFFECTS

MUTAGENICITY	Ames Test (TA98, TA100, TA1535, TA1537, TA1538, WP2uvrA): Negative
TERATOLOGY	No data available for this product.
REPRODUCTIVE and DEVELOPMENTAL TOXICITY	No information available.

CARCINOGENICITY

CHEMICAL NAME	DATA	AGENCY	LIST
Silica, amorphous	Monograph 68 [1997]; Supplement 7 [1987]	IARC	Group 3 Not Classifiable as Carcinogens

None of the components of this product are listed on the OSHA Possible or Select Carcinogens Lists.
None of the components of this product are listed on the ACGIH Carcinogens List.
None of the components of this product are listed on the NTP Known or Suspected Carcinogens List.

LETHAL DOSE (LD50 & LC50) DATA

LD50 ORAL	LD50 Oral Rat > 2000 mg/kg
LD50 DERMAL	No information available
LC50 INHALATION	LC50 Inhalation Rat > 5.07 mg/L/4 hour dusts, mists, fumes
MEDICAL CONDITIONS AGGRAVATED by EXPOSURE	Inhalation of this product may aggravate existing conditions of the respiratory system such as asthma or bronchitis
ROUTES of ENTRY	Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.
OTHER TOXICOLOGICAL INFORMATION	Skin Corrosion/Irritation: Rabbit, 100%, 4 hr. semi-occluded application (OECD404): Non Irritant Serious Eye Damage/Irritation: Rabbit, 100%, OECD Guidelines No.405: Non Irritant Skin Sensitization: Mouse Local Lymph Node Assay (LLNA, OECD429) : Negative SPECIFIC TARGET ORGAN TOXICITY (SE): wax - category 3 (respiratory tract irritant)

SECTION 12: ECOLOGICAL INFORMATION**UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION**

AQUATIC TOXICITY CLASSIFICATION	Chronic 3
SIGNAL WORD	Not applicable
HAZARD PICTOGRAM	Not applicable
HAZARD STATEMENT	Harmful to aquatic life
PREVENTION	Avoid release to the environment.
RESPONSE	Not applicable
DISPOSAL	Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

ADDITIONAL ENVIRONMENTAL INFORMATION

AQUATIC TOXICITY (fish)	No information available.
AQUATIC TOXICITY (crustacean)	48 hr EC50 daphnia magna > 100 mg/L (data on similar product)
AQUATIC TOXICITY (algae)	No information available.
AQUATIC TOXICITY (other data)	No information available.
ECOTOXICITY INFORMATION	None determined
ENVIRONMENTAL FATE	No data available for this product.
BIOLOGICAL OXYGEN DEMAND (BOD5), g/g	No data available
CHEMICAL OXYGEN DEMAND (COD), g/g	No data available
PERSISTENCE & DEGRADABILITY	No information available.
BIOACCUMULATION	No information available.



SAFETY DATA SHEET

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.
GENERAL DISPOSAL CONSIDERATIONS	Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
DISPOSAL of EMPTY CONTAINERS	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

RCRA COMPONENT	CASRN	DATA
No limits established for this product.		

SECTION 14: TRANSPORT INFORMATION

US DOT CLASSIFICATION (49 CFR §172.101)

UN NUMBER	UN PROPER SHIPPING NAME	TECHNICAL NAME	HAZARD CLASS	PACKING GROUP	SHIPPING PLACARDS
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Not Regulated in Transportation

SPECIAL PROVISIONS (§172.102)	Not applicable
PACKAGING, BULK (§173.***)	Not applicable
PACKAGING, NON-BULK (§173.***)	Not applicable
PACKAGING, EXCEPTIONS (§173.***)	Not applicable
QUANTITY LIMITATION, PASSENGER AIR/RAIL	Not applicable
QUANTITY LIMITATION, CARGO AIR	Not applicable
VESSEL STOWAGE, GENERAL	Not applicable
VESSEL STOWAGE SPECIAL	Not applicable
REPORTABLE QUANTITY (RQ)	No reportable quantity for this product
EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE	Not applicable

INTERNATIONAL BULK SHIPPING REQUIREMENTS (MARPOL 73/78)

SHIPPING NAME	No information available
SHIP TYPE	No information available
POLLUTION CATEGORY	No information available

OTHER REGULATORY CLASSIFICATION INFORMATION

	IATA	IMDG
PROPER SHIPPING NAME	Non-hazardous material	Non-hazardous material
HAZARD CLASS	Not applicable	Not applicable
PACKING GROUP	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)	This product is listed on the U.S. EPA TSCA Inventory.
TSCA 12b EXPORT NOTIFICATION (US)	This product is not subject to TSCA 12B Export Notification requirements.
SIGNIFICANT NEW USE RULE (US)	This material is not subject to a Significant New Use Rule under the US Toxic Substances Control Act.
TSCA 8b INVENTORY RESET STATUS (US)	All substances present in this product have been designated as commercially ACTIVE on the United States TSCA inventory {15 U.S.C. §2607(b)(4)}
DOMESTIC SUBSTANCE LIST (DSL - CA)	This product contains components which have not been notified to the Canadian Environmental Protection Agency for inclusion on the Domestic Substance List.
HAZARDOUS MATERIALS INFORMATION REVIEW ACT (CA)	This product does not contain any materials for which a Confidential Business Information claim has been filed with Health Canada. Filing Date: Not applicable Reference Number: Not applicable
SIGNIFICANT NEW USE ACTIVITIES (CA)	The product contains no regulated components
NATIONAL INVENTORY of CHEMICAL SUBSTANCES (MX)	This material is not listed on the National Inventory of Chemical Substances (INSQ) of Mexico.

INTERNATIONAL CHEMICAL INVENTORIES

All of the components of this product are listed on the following inventories:

ENCS	Japan	Yes	
REACH	Europe	Not evaluated	
EINECS	Europe	No	
ELINCS	Europe	Yes	
IECSC	China	No	Simplified Notification (polymer)
PICCS	Philippines	No	
ECL	Korea	No	Exemption for Examination
AICS	Australia	Yes	
TCSI	Taiwan	Yes	

APPLICABLE UNITED STATES FEDERAL and STATE REGULATIONS**EMERGENCY PLANNING and COMMUNITY RIGHT TO KNOW ACT (EPCRA) 40 CFR PART 355, APPENDIX A**

EHS COMPONENT	CASRN	PERCENT	TPQ POUNDS and RQ
The product contains no regulated components			
313 COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no regulated components			

CERCLA/SARA COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no regulated components			

EPCRA SECTION 311/312 CLASSIFICATION	ACUTE	No	
	CHRONIC	No	
	FIRE	No	
	PRESSURE	No	
	REACTIVE	No	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT HON-RULE FOR SOCM I CHEMICALS

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT (VOCS IN SOCM I CHEMICALS)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT AS HAZARDOUS AIR POLLUTANTS (HAP)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT HON-RULE HAZARDOUS AIR POLLUTANTS (HAP)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN WATER ACT

COMPONENT NAME	CASRN	LIST NAME
No limits established for this product.		

STATE RIGHT-TO-KNOW INFORMATION

COMPONENT NAME	CASRN	STATE	LIST NAME
Paraffin wax	8002-74-2	Massachusetts	Right-to-Know List
Paraffin wax	8002-74-2	New Jersey	Right-to-Know List
Paraffin waxes and Hydrocarbon waxes	8002-74-2	Pennsylvania	Right-to-Know List

If the STATE RIGHT-TO-KNOW INFORMATION table above is empty than none of the components of this product are included on the state right-to-know regulatory lists for Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.

CALIFORNIA SAFE WATER and TOXIC ENFORCEMENT ACT of 1986 (Proposition 65)

COMPONENT NAME	CASRN	CONCENTRATION [‡]	LIST DATA
This product contains no components which are listed on California's Proposition 65 lists.			

[‡] CONCENTRATIONS EXPRESSED IN % UNLESS UNITS ARE SPECIFIED

APPLICABLE REGULATIONS OF THE GOVERNMENT OF CANADA

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE CANADIAN WHMIS INGREDIENT DISCLOSURE LIST (IDL)

COMPONENT	CASRN	PERCENT	MINIMUM CONCENTRATION
The product contains no regulated components			

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE REVISED IN-COMMERCE LIST (R-ICL)

COMPONENT	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE ENVIRONMENTAL EMERGENCIES LIST

COMPONENT	CASRN
The product contains no regulated components	

APPLICABLE REGULATIONS OF THE GOVERNMENT OF MEXICO

ECOLOGICAL CRITERIA FOR WATER QUALITY

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Protection of Marine Water
The product contains no regulated components				Protection of Fresh Water
The product contains no regulated components				Agricultural Irrigation
The product contains no regulated components				Drinking Water Supply Source

POLLUTION RELEASE AND TRANSFER REGISTER

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Reporting Emissions Threshold
The product contains no regulated components				Manufacturing, Processing Use Threshold

THRESHOLD QUANTITIES OF HAZARDOUS CHEMICALS

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Workplace Threshold

SECRETARIAT OF LABOR AND SOCIAL WELFARE (STPS) - EXPOSURE LIMITS

COMPONENT	CASRN	DATA	LIST
Parafina	8002-74-2	2 mg/m ³ TWA VLE-PPT (fume)	TWA LIMIT
Partículas insolubles o poco solubles no especificadas de otra manera	—	10 mg/m ³ TWA VLE-PPT (inhalable fraction); 3 mg/m ³ TWA VLE-PPT (respirable fraction)	TWA LIMIT
The product contains no regulated components			STEL LIMITS
The product contains no regulated components			CEILING LIMITS
The product contains no regulated components			SKIN DESIGNATION
The product contains no regulated components			CARCINOGENS

SECTION 16: Other information

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

Hazardous Material Identification System (HMIS) Hazard Ratings

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0
PERSONAL PROTECTION	D

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME: Cyan toner powder (cartridge) for LP844C, LP654C
(Toner powder name: ODC-11-MH)

PRODUCT CASRN: Mixture

PRODUCT DESCRIPTION: Cyan Toner

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

MATERIAL USES: For electrophotographic printing systems

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

MANUFACTURER: Oki Electric Industry Co., Ltd.
1-7-12 Toranomom, Minato-ku, Tokyo, 105-8460, Japan
Tel: +81 3-3501-3111

SUPPLIER: Printronix, LLC.
7700 Irvine Center Drive, Suite 700 Irvine, CA 92618 USA

EMERGENCY TELEPHONE NUMBER: Tel. 1-800-665-6210

SECTION 2: HAZARD(S) IDENTIFICATION

PRODUCT CLASSIFICATION per 29 CFR 1910.1200

HAZARD CLASSIFICATION	This product does not satisfy any of the criteria for a hazardous material per the guidelines established by the United Nations (Globally Harmonized System of Classification and Labelling of Chemicals) as specified in 29 CFR 1910.1200 Hazard Communication (2012).
SIGNAL WORD	Not Applicable
HAZARD STATEMENT	Not applicable

RECOMMENDED SAFETY PRECAUTIONS

INJURY PREVENTION	Take all precautions to prevent dispersion of this product in air. Eliminate all sources of ignition. Take precautionary measures against static discharge. Good industrial hygiene practices should be followed when handling this material. Avoid contact with eyes and skin. Do not breathe dusts of this material. Wash thoroughly after handling.
EMERGENCY RESPONSE	IF IN EYES: rinse cautiously with water for 15 minutes. Remove contact lens, if present and easy to do. Continue rinsing. Seek medical attention if necessary IF ON SKIN: gently wash with plenty of soap and water. Call a POISON CONTROL CENTER or doctor if symptoms develop or you feel unwell. Protect from sun. Store in a well-ventilated room (under 40°C).

SAFETY DATA SHEET

PRODUCT STORAGE | Guard against accumulations of this material on surfaces.
Eliminate all sources of ignition.

PRODUCT DISPOSAL | DISPOSE of product and containers in accordance with all applicable local, state, federal, and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED

PYROPHORIC GASES | Not applicable

SIMPLE ASPHYXIANTS | Not applicable

COMBUSTIBLE DUST | Product has not been tested for combustibility. However, as similar products are known to be combustible, the potential for this material to combust is a real hazard. All precautions should be taken when handling this product to avoid dispersion of the material in air.

Dust Classification	Minimum Ignition Energy (mJ)	Pmax (bar-g)	Rmax (bar/s)	Kst (bar-m/s)	Explosion Severity
Unknown (material has not been tested for combustibility)					

Definitions for dust classifications are found in OSHA Instruction CPL 03-00-008 Combustible Dust National Emphasis Program (reissued) March 11, 2008, Appendix E, Section 5

Other Known Hazards | None

FOR INFORMATION REGARDING ENVIRONMENTAL GHS CLASSIFICATION, REFER TO SECTION 12 BELOW

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical name	Common Name	CAS number	Concentration (%)
Confidential	Polyester resin	Confidential	Confidential
Confidential	Wax	Confidential	1 - 5
Confidential	Silica	Confidential	1 – 5
Confidential	Pigment	Confidential	Confidential
Confidential	Zinc alkyl salicylate	Confidential	Confidential

If any items in the table above are described as CONFIDENTIAL, Oki Electric Industry Co., Ltd. considers this information to constitute a Trade Secret.

Where Confidentiality is claimed, see SECTION 15 for further information required under the Government of Canada Hazardous Materials Information Review Act (HMIRA)

SECTION 4: FIRST-AID MEASURES

EYES | Remove contact lens immediately, if present and easy to remove. Immediately flush eyes with plenty of water for at least 15 minutes. If necessary, seek medical attention.

SAFETY DATA SHEET

SKIN	Immediately take off all contaminated clothing. Wash affected area with mild soap and water. If irritation persists or other symptoms develop, seek medical attention. If medical attention is not immediately available, contact POISON CONTROL CENTER (1-800-222-1222).
INGESTION	If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions.
INHALATION	Move person to non-contaminated air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. If tightness or congestion develops, get medical attention.
SYMPTOMS of EXPOSURE	None known.
NOTES to PHYSICIAN	Provide general supportive measures and treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES:	Refer to SECTION 9: Physical and Chemical Properties
HAZARDOUS PRODUCTS of COMBUSTION	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
PROPERTIES THAT COULD INCREASE FIRE or EXPLOSION HAZARD	Dusts at sufficient concentrations can form explosive mixtures with air.
EXTINGUISHING MEDIA	Water spray or powder
FIRE-FIGHTING INSTRUCTIONS	Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA ratings are found in SECTION 16

SECTION 6: ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 1-800-424-9300 or +1-703-741-5970 for international collect calls (in Mexico, call 800-681-9531)

RESPONSE TO SMALL SPILLS OF PRODUCT

SPILL CONTAINMENT	Containment of this material should not be necessary.
SPILL CLEANUP PROCEDURES	Vacuum up the spilled material.
REQUIRED EQUIPMENT	Vacuum or sweep up material and place in a disposal container.
ADDITIONAL INFORMATION	No other spill procedures necessary.

RESPONSE TO LARGE SPILLS OF PRODUCT

SPILL CONTAINMENT	Stop the flow of material, if this is without risk. Contain the discharged material. Remove
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SAFETY DATA SHEET

SPILL CLEANUP PROCEDURES	sources of ignition.
REQUIRED EQUIPMENT	Vacuum or sweep up material and place in a disposal container. Avoid the generation of dusts during clean-up. Dispose of spent absorbent in an approved industrial waste landfill.
ADDITIONAL INFORMATION	Any equipment which presents a risk of accumulating static electricity should be properly grounded/bonded when used in the clean-up of this material. Wear appropriate protective equipment and clothing during clean-up.
ADDITIONAL INFORMATION	No other spill procedures necessary.

SECTION 7: HANDLING AND STORAGE

HANDLING REQUIREMENTS	DUE TO THE POTENTIAL FOR COMBUSTIBLE DUST EXPLOSION, avoid conditions which may result in formation of a dust cloud. Implement best housekeeping practices to prevent accumulation of this product on surfaces. Do not use compressed air or nitrogen to remove material accumulations from surfaces. Equipment used to remove accumulated product should be protected against static ignition. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid getting this material into contact with your skin and eyes. Do not breathe fumes or dust from this material. Wash thoroughly after handling.
STORAGE REQUIREMENTS	Store in a cool, dry, well-ventilated area. This material can accumulate static charge which may cause spark and become an ignition source. Guard against dust accumulation of this material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Prevent electrostatic charge build-up by using common bonding and grounding techniques.
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PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION	Wear dust goggles.
HAND PROTECTION	Use impervious gloves.
SKIN PROTECTION	Normal work clothing (long sleeved shirts and long pants) is recommended.
RESPIRATORY PROTECTION	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever there may be potential for airborne exposure.
OTHER	Eyewash fountains and emergency showers are required.

SAFETY DATA SHEET

EXPOSURE LIMITS

CHEMICAL	CASRN	PERCENT	LIMITS	AGENCY
Particulates not otherwise regulated	—	—	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)	OSHA
Silica, amorphous Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	7631-86-9	1 - 5	20 mppcf TWA; ((80)/(% SiO2) mg/m3 TWA)	OSHA
Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS)	—	—	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended)	ACGIH
Paraffin wax	8002-74-2	1 - 5	2 mg/m3 TWA (fume)	ACGIH

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE @ 20°C	Cyan Powder	ODOR	No odor
ODOR THRESHOLD	No data available	pH	No data available
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	1.2g/mL @ 20°C
MELTING POINT (°C)	No data available	WATER SOLUBILITY	Insoluble in water
INITIAL BOILING POINT (°C)	No data available	BOILING RANGE (°C)	No data available
PARTITION COEFFICIENT (N-OCTANOL/WATER)	No data available	VISCOSITY	No data available
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	Not evaluated
FLASH POINT (°C)	Not applicable	AUTO-IGNITION TEMPERATURE	No data available
UPPER EXPLOSIVE LIMIT	No data available	LOWER EXPLOSIVE LIMIT	No data available
OTHER DATA	No data available		

SECTION 10: STABILITY and REACTIVITY

CHEMICAL STABILITY	Stable under normal conditions.
CONDITIONS to AVOID	Avoid ignition sources where dust is produced.
INCOMPATIBLE MATERIALS (Reactivity)	None known.
INCOMPATIBLE MATERIALS (Storage & Transport)	No information available.
HAZARDOUS DECOMPOSITION PRODUCTS	None known.
HAZARDOUS POLYMERIZATION	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION**ACUTE EFFECTS**

EYE EFFECTS	Dust or powder may irritate eye tissue.
SKIN EFFECTS	Not expected to be a primary skin irritant.
ACUTE ORAL EFFECTS (INGESTION)	Not a likely route of entry.
ACUTE INHALATION EFFECTS	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
TARGET ORGANS	No known effects.

CHRONIC EFFECTS

MUTAGENICITY	Ames Test (TA98, TA100, TA1535, TA1537, TA1538, WP2uvrA): Negative
TERATOLOGY	No data available for this product.
REPRODUCTIVE and DEVELOPMENTAL TOXICITY	No information available.

CARCINOGENICITY

CHEMICAL NAME	DATA	AGENCY	LIST
Silica, amorphous	Monograph 68 [1997]; Supplement 7 [1987]	IARC	Group 3 Not Classifiable as Carcinogens

None of the components of this product are listed on the OSHA Possible or Select Carcinogens Lists.

None of the components of this product are listed on the ACGIH Carcinogens List.

None of the components of this product are listed on the NTP Known or Suspected Carcinogens List.

LETHAL DOSE (LD50 & LC50) DATA

LD50 ORAL	LD50 Oral Rat > 2000 mg/kg
LD50 DERMAL	No information available
LC50 INHALATION	LC50 Inhalation Rat > 5.07 mg/L/4 hour dusts, mists, fumes
MEDICAL CONDITIONS AGGRAVATED by EXPOSURE	Inhalation of this product may aggravate existing conditions of the respiratory system such as asthma or bronchitis
ROUTES of ENTRY	Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.
OTHER TOXICOLOGICAL INFORMATION	Skin Corrosion/Irritation: Rabbit, 100%, 4 hr. semi-occluded application (OECD404): Non Irritant Serious Eye Damage/Irritation: Rabbit, 100%, OECD Guidelines No.405: Non Irritant Skin Sensitization: Mouse Local Lymph Node Assay (LLNA, OECD429) : Negative SPECIFIC TARGET ORGAN TOXICITY (SE): wax - category 3 (respiratory tract irritant)

SECTION 12: ECOLOGICAL INFORMATION**UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION**

AQUATIC TOXICITY CLASSIFICATION	Chronic 3
SIGNAL WORD	Not applicable
HAZARD PICTOGRAM	Not applicable
HAZARD STATEMENT	Harmful to aquatic life with long lasting effects
PREVENTION	Avoid release to the environment.
RESPONSE	Not applicable
DISPOSAL	Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

ADDITIONAL ENVIRONMENTAL INFORMATION

AQUATIC TOXICITY (fish)	No information available.
AQUATIC TOXICITY (crustacean)	48 hr EC50 daphnia magna > 100 mg/L (data on similar product)
AQUATIC TOXICITY (algae)	No information available.
AQUATIC TOXICITY (other data)	No information available.
ECOTOXICITY INFORMATION	None determined
ENVIRONMENTAL FATE	No data available for this product.
BIOLOGICAL OXYGEN DEMAND (BOD5), g/g	No data available
CHEMICAL OXYGEN DEMAND (COD), g/g	No data available
PERSISTENCE & DEGRADABILITY	No information available.
BIOACCUMULATION	No information available.



SAFETY DATA SHEET

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.
GENERAL DISPOSAL CONSIDERATIONS	Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
DISPOSAL of EMPTY CONTAINERS	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

RCRA COMPONENT	CASRN	DATA
No limits established for this product.		

SECTION 14: TRANSPORT INFORMATION

US DOT CLASSIFICATION (49 CFR §172.101)

UN NUMBER	UN PROPER SHIPPING NAME	TECHNICAL NAME	HAZARD CLASS	PACKING GROUP	SHIPPING PLACARDS
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Not Regulated in Transportation

SPECIAL PROVISIONS (§172.102)	Not applicable
PACKAGING, BULK (§173.***)	Not applicable
PACKAGING, NON-BULK (§173.***)	Not applicable
PACKAGING, EXCEPTIONS (§173.***)	Not applicable
QUANTITY LIMITATION, PASSENGER AIR/RAIL	Not applicable
QUANTITY LIMITATION, CARGO AIR	Not applicable
VESSEL STOWAGE, GENERAL	Not applicable
VESSEL STOWAGE SPECIAL	Not applicable
REPORTABLE QUANTITY (RQ)	No reportable quantity for this product
EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE	Not applicable

INTERNATIONAL BULK SHIPPING REQUIREMENTS (MARPOL 73/78)

SHIPPING NAME	No information available
SHIP TYPE	No information available
POLLUTION CATEGORY	No information available

OTHER REGULATORY CLASSIFICATION INFORMATION

	IATA	IMDG
PROPER SHIPPING NAME	Non-hazardous material	Non-hazardous material
HAZARD CLASS	Not applicable	Not applicable
PACKING GROUP	Not applicable	Not applicable

SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)	This product is listed on the U.S. EPA TSCA Inventory.
TSCA 12b EXPORT NOTIFICATION (US)	This product is not subject to TSCA 12B Export Notification requirements.
SIGNIFICANT NEW USE RULE (US)	This material is not subject to a Significant New Use Rule under the US Toxic Substances Control Act.
TSCA 8b INVENTORY RESET STATUS (US)	All substances present in this product have been designated as commercially ACTIVE on the United States TSCA inventory {15 U.S.C. §2607(b)(4)}
DOMESTIC SUBSTANCE LIST (DSL - CA)	This product contains components which have not been notified to the Canadian Environmental Protection Agency for inclusion on the Domestic Substance List.
HAZARDOUS MATERIALS INFORMATION REVIEW ACT (CA)	This product does not contain any materials for which a Confidential Business Information claim has been filed with Health Canada. Filing Date: Not applicable Reference Number: Not applicable
SIGNIFICANT NEW USE ACTIVITIES (CA)	The product contains no regulated components
NATIONAL INVENTORY of CHEMICAL SUBSTANCES (MX)	This material is not listed on the National Inventory of Chemical Substances (INSQ) of Mexico.

INTERNATIONAL CHEMICAL INVENTORIES

All of the components of this product are listed on the following inventories:

ENCS	Japan	Yes	
REACH	Europe	Not evaluated	
EINECS	Europe	Yes	
ELINCS	Europe	No	
IECSC	China	No	Simplified Notification (polymer)
PICCS	Philippines	No	
ECL	Korea	No	Exemption for Examination
AICS	Australia	Yes	
TCSI	Taiwan	Yes	

APPLICABLE UNITED STATES FEDERAL and STATE REGULATIONS**EMERGENCY PLANNING and COMMUNITY RIGHT TO KNOW ACT (EPCRA) 40 CFR PART 355, APPENDIX A**

EHS COMPONENT	CASRN	PERCENT	TPQ POUNDS and RQ
The product contains no regulated components			
313 COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no regulated components			

CERCLA/SARA COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
The product contains no regulated components			

EPCRA SECTION 311/312 CLASSIFICATION	ACUTE	No	
	CHRONIC	No	
	FIRE	No	
	PRESSURE	No	
	REACTIVE	No	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT HON-RULE FOR SOCM I CHEMICALS

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT (VOCS IN SOCM I CHEMICALS)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT AS HAZARDOUS AIR POLLUTANTS (HAP)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN AIR ACT HON-RULE HAZARDOUS AIR POLLUTANTS (HAP)

COMPONENT NAME	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS ARE IDENTIFIED UNDER THE US CLEAN WATER ACT

COMPONENT NAME	CASRN	LIST NAME
No limits established for this product.		

STATE RIGHT-TO-KNOW INFORMATION

COMPONENT NAME	CASRN	STATE	LIST NAME
Paraffin wax	8002-74-2	Massachusetts	Right-to-Know List
Paraffin wax	8002-74-2	New Jersey	Right-to-Know List
Paraffin waxes and Hydrocarbon waxes	8002-74-2	Pennsylvania	Right-to-Know List

If the STATE RIGHT-TO-KNOW INFORMATION table above is empty than none of the components of this product are included on the state right-to-know regulatory lists for Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.

CALIFORNIA SAFE WATER and TOXIC ENFORCEMENT ACT of 1986 (Proposition 65)

COMPONENT NAME	CASRN	CONCENTRATION [‡]	LIST DATA
This product contains no components which are listed on California's Proposition 65 lists.			

[‡] CONCENTRATIONS EXPRESSED IN % UNLESS UNITS ARE SPECIFIED

APPLICABLE REGULATIONS OF THE GOVERNMENT OF CANADA

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE CANADIAN WHMIS INGREDIENT DISCLOSURE LIST (IDL)

COMPONENT	CASRN	PERCENT	MINIMUM CONCENTRATION
The product contains no regulated components			

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE REVISED IN-COMMERCE LIST (R-ICL)

COMPONENT	CASRN
The product contains no regulated components	

THE FOLLOWING COMPONENTS OF THIS PRODUCT ARE LISTED ON THE ENVIRONMENTAL EMERGENCIES LIST

COMPONENT	CASRN
The product contains no regulated components	

APPLICABLE REGULATIONS OF THE GOVERNMENT OF MEXICO

ECOLOGICAL CRITERIA FOR WATER QUALITY

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Protection of Marine Water
The product contains no regulated components				Protection of Fresh Water
The product contains no regulated components				Agricultural Irrigation
The product contains no regulated components				Drinking Water Supply Source

POLLUTION RELEASE AND TRANSFER REGISTER

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Reporting Emissions Threshold
The product contains no regulated components				Manufacturing, Processing Use Threshold

THRESHOLD QUANTITIES OF HAZARDOUS CHEMICALS

COMPONENT	CASRN	PERCENT	DATA	LIST
The product contains no regulated components				Workplace Threshold

SECRETARIAT OF LABOR AND SOCIAL WELFARE (STPS) - EXPOSURE LIMITS

COMPONENT	CASRN	DATA	LIST
Parafina	8002-74-2	2 mg/m3 TWA VLE-PPT (fume)	TWA LIMIT
Partículas insolubles o poco solubles no especificadas de otra manera	—	10 mg/m3 TWA VLE-PPT (inhalable fraction); 3 mg/m3 TWA VLE-PPT (respirable fraction)	TWA LIMIT
The product contains no regulated components			STEL LIMITS
The product contains no regulated components			CEILING LIMITS
The product contains no regulated components			SKIN DESIGNATION
The product contains no regulated components			CARCINOGENS

SECTION 16: Other information

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

Hazardous Material Identification System (HMIS) Hazard Ratings

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0
PERSONAL PROTECTION	D