

SDS No. : TNR-C75B-H (for EU)

SAFETY DATA SHEET

Toner powder (Cartridge) for

ES9465MFP / ES9475MFP

Oki Data Corporation

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SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	: Black toner (cartridge) for	
	ES9465MFP / ES9475MFP (Toner powder name : T-FC50U-K)	
Manufacturer	: Oki Data Corporation	
	: 3-1 Futaba-cho, Takasaki-shi, Gunma. 370-8585 JAPAN.	
	Tel : +81-27-328-6366, Fax : +81-27-328-6396	
Supplier	: Oki (Europe) Ltd.	
	1 Oki Way, Wardpark, Cumbernauld G68 0FQ, SCOTLAND, UK.	
	Tel. : +44(0) 1236 502502	
Emergency Telephone. No. : +44(0) 1236 502502		

Emergency e-mail contact : MSDSQuestion@okieurope.com

2. HAZARDS IDENTIFICATION

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	PHYSICAL AND CHEMICAL HAZAF			
	EXPLOSIVES	: Not classified.		
	FLAMMABLE GASES	: Not applicable.		
	FLAMMABLE AEROSOLS	: Not applicable.		
		: Not applicable.		
	GASES UNDER PRESSURE	: Not applicable.		
	FLAMMABLE LIQUIDS	: Not applicable.		
	FLAMMABLE SOLIDS	: Not classified.		
	SELF-REACTIVE MIXTURES	: Not classified.		
	PYROPHORIC LIQUIDS	: Not applicable.		
	PYROPHORIC SOLIDS	: Not classified.		
	SELF-HEATING MIXTURES	: Not classified.		
	OXIDIIZING LIQUIDS	: Not classified.		
	OXIDIIZING SOLIDS	: Not classified.		
	ORGANICE PEROXIDES	: Not classified.		
	CORROSIVE TO METALS	: Not classified.		
	HEALTH HAZARDS			
	ACUTE TOXICITY (Oral)	: Not classified.		
	ACUTE TOXICITY (Dermal)	: Classification not possible.		
	ACUTE TOXICITY (Inhalation-Gas			
	ACUTE TOXICITY (Inhalation-Var	, .		
	ACUTE TOXICITY (Inhalation-Due	st) : Not classified.		
	SKIN CORROSION / IRRITATION	: Not classified.		
	SERIOUS EYE DAMAGE / EYE IR	RITATION : Classification not possible.		
	RESPIRATORY SENSITIZATION	: Classification not possible.		
	SKIN SENSITIZATION	: Not classified.		
	GERM CELL MUTAGENICITY	: Classification not possible.		
	CARCINOGENICITY	: Classification not possible.		
	REPRODUCTIVE TOXICITY	: Classification not possible.		
	SPECIFIC TARGET ORGAN SYS	TEMIC TOXICITY		
	- SINGLE EXPOSURE	: Classification not possible.		
	- REPEATED EXPOSURE	: Classification not possible.		
	ASPIRATION HAZARD	: Classification not possible.		
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ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE TOXICITY - CHRONIC TOXICITY GHS LABEL ELEMENTS OTHER HAZARDS DUST EXPLOSIBILITY

: Not classified.

- : Classification not possible.
- : Not applicable.

: The potential dust explosion level equivalent to common powder (See the section 9).

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE : Mixture INGREDIENTS AND CONCENTRATION RANGE

INGREDIENT(S)	CAS No.	Concentration Range(wt%)
Polyester resin	Trade secret	80-89
Carbon black	1333-86-4	4-7
Wax	Trade secret	4-7
Amorphous Silica	7631-86-9	3-6
Titanium dioxide	13463-67-7	0.1-0.9

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.

4. FIRST AID MEASURES	
IN CASE OF EYE CONTACT	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After initial flushing, remove any contact lenses and continue flushing. Get medical attention/advice if irritation occurs.
IN CASE OF SKIN CONTACT	: Gently wash with plenty of soap and water. If concerned: Get medical attention/advice.
IN CASE OF INHALATION	: Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
IN CASE OF INGESTION	: Wash out mouth with water. If material has been swallowed, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

EXTINGUISHING MEDIA : Use water spray, foam, dry chemical or powder extinguishing media. NOT SUITABLE EXTINGUISHING MEDIA : Do not use a solid water streams.
NOT SUITARI E EVTINGUISHING MEDIA
NOT SOTTABLE EXTINGUISHING MEDIA . DO HOU USE a SOTU Water Streams.
SPECIAL HAZARDS : There have possibilities to generate irritating or toxic gases.
ADVICE FOR FIREFIGHTERS : Keep away from sources of ignition and use the appropriate
extinguishing media. Fight fire from upwind position if possible.
PROTECTION OF FIREFIGHTERS : Use appropriate protective equipment, goggles, dust mask, and another protections depending on the situation.

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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

- : Avoid breathing dust.
- Use appropriate protective equipment, mask, goggles, protective gloves...etc
- When large spills, evacuate person to safe place.
- Provide adequate ventilation.
- Operate from upwind position.

ENVIRONMENTAL PRECAUTIONS

: - Avoid dispersal of spilled material.

- Do not discharge into drains, waterways and sewers directly.

METHODS FOR CLEANING UP

: Vacuum up or sweep up the spilled material and collect in suitable container for disposal. Use spark-proof tools and explosion-proof equipment.

PREVENTION OF SECONDARY HAZARDS

: No information available.

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7. HANDLING AND STORA	GE	
HANDLING		
TECHNICAL MEASURES	: No special equipment are necessity for operating under usual conditions.	
PRECAUTIONS	: - Avoid inhalation of fine dust.	
	 Keep away from excessive heat, sparks and open flames. Keep cartridge (material) out of reach of children. 	
SAFE HANDLING ADVICE	: - Provide adequate ventilation.	
	- Wash hands after handling.	
	- Use appropriate protective equipment as required.	
STORAGE		
SUITABLE STORAGE CONDITIONS		
	: - Store in hermetically-sealed container.	
	- Protected from direct sunlight in a dry, cool and well-ventilated	
	area.	
	- Do not store above the following temperature: 35°C.	
SAFE PACKAGING MATERIAL	S : No information available.	
8. EXPOSURE CONTROLS	PERSONAL PROTECTION	
ENGINEERING MEASURES	: No special equipment are necessity for operating under usual	
	conditions. Use local exhaust ventilation, in the case of dust discharging.	
LIMIT VALUES		
ACGIH (TLV)	: Toner : 10mg/m3 TWA (inhalable particles, recommended);	
	3mg/m3 TWA (respirable particles, recommended)	
	Amorphous Silica : TWA 10mg/m3	
	Titanium Dioxide : 10mg/m3 TLV	
	Carbon Black : TWA 3.5mg/m3	

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OSHA (PEL)	: Toner : 15mg/m3 TWA (total dust);
	5mg/m3 TWA (respirable fraction)
	Titanium Dioxide : TWA 15mg/m3
	Carbon Blac k: TWA 3.5mg/m3
EU OEL	: Not established.
DFG MAK	: Dust (Toner) : 4mg/m3 (Inhalable fraction)
	1.5mg/m3 (Respirable fraction)
RESPIRATORY PROTECTION	: Use dust mask up to the situation.
	: Use rubber gloves up to the situation.
	: Use safety glasses or goggles up to the situation.
SKIN AND BODY PROTECTION	
HYGIENE MEASURES	: No information available.
9. PHYSICAL AND CHEMICA	L PROPERTIES
PHYSICAL STATES	
FORM : Fine s	olid Powder.
COLOUR : Black	
ODOUR : Odour	rless.
Ph VALUE : Not ap	oplicable.
SPECIFIC TEMPERATURES / TEMPER	RATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR
	ormation available.
	150 degree (Softening point)
•	oplicable.
FLAMMABILITY OR EXPLOSIVE P	
FLAMMABILITY OR EXPLOSIVE	LIMITS : UPPER LIMIT : No information available.
	LOWER LIMIT : No information available.
-	oplicable.
-	oplicable.
SPECIFIC GRAVITY (DENSITY)	: 1.1 - 1.5
SOLUBILITY WATER SOLUBILITY : Insolu	
PARTITION COEFFICIENT	Ily soluble in toluene, chloroform and tetrahydrofuran.
n-OCTANOL / WATER (log Pow)	· No information available
AUTO-IGNITION TEMPERATURE	: No information available.
ODOUR THRESHOLD	: No information available.
EVAPORATION RATE	: No information available.
FLAMMABILITY (SOLD, GAS)	: No information available.
VISCOSITY	: No information available.
OTHER DATA	: No information available.
EXPLOSIVE PROPERTIES	: Little possibility in intended use.
EXFLOSIVE PROPERTIES	According to Explosive Evaluation, can form explosive dust-air
	According to Explosive Evaluation, can form explosive dust-air mixtures when finely dispersed in air, like most finely grained



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10. STABILITY AND REACTIVITY

REACTIVITY : Low reactivity.

CHEMICAL STABILITY : Stable in general.

POSSIBILITY OF HAZARDOUS REACTIONS

: None under normal processing. Hazardous Polymerization will not occur.

CONDITIONS TO AVOID : Electric discharge, throwing into fire.

INCOMPATIBLE MATERIALS : The product should be kept away from oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS : Carbon monoxide and carbon dioxide.

OTHERS : No information available.

11. SUPPLEMENTAL HEALTH INFORMATION : LD50 is greater than 2,000mg/kg. Acute oral toxicity (This was the highest attainable mass.) Acute inhalation : LC50 (4H) is in excess of 5.05mg/l. (This was the highest attainable concentration.) Eye irritation : Minimum irritating. Not classified by GHS. Skin irritation : Mildly irritating. Not classified by GHS. Skin sensitization : Non-sensitizer. **Mutagenicity** : Negative in the Ames test. Carcinogenicity : The IARC classified carbon black as a Group 2B carcinogen (possibly carcinogenic to humans). But carcinogenicity was not observed with toner containing carbon black in chronic rat inhalation study. The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possible human carcinogen). In animal chronic inhalation studies, carcinogenicity was observed in only specific rats. This is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Epidemiological study to date have not revealed any evidence of the relation between work exposure of titanium dioxide and respiratory diseases. **Chronic Effects** : In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92 % of the rats in the high concentration (16 mg/m3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4 mg/m3) exposure group. These findings are attributed to "lung overloading", a general response to excessive amounts of any dust retained in the lungs for a prolonged period. **OTHER INFORMATION** : No information available.

12. ECOLOGICAL INFORMATION		
Aquatic environment : LC50 is greater than 100mg/L (fish).		
	: EC50 is greater than 100mg/L (daphnia).	
	: EbC50 is greater than 100mg/L (Algal).	
	(This was the highest attainable mass.)	
PERSISTENCE / DEGRADABILITY	: No information available.	

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MOBILITY IN SOIL	: No information available.
BIOACCUMULATIVE POTENTIAL	: No information available.
OTHER ADVERSE EFFECTS	: No information available.

13. DISPOSAL CONSIDERATION

Review "HANDLING AND STORAGE (Section7)".

Dispose this article comply with the regulations of each countries.

The IARC classified carbon black as a Group 2B carcinogen (possibly carcinogenic to humans).

14. TRANSPORTATION INFORMATION

Special Precautions : None.	
International Transport Information	1
UN Classification Number	: Not applicable.
Land DOT 49 CFR, ADR	: Not classified as Dangerous Goods.
Sea IMDG Code	: Not classified as Dangerous Goods.
Air ICAO-TI	: Not classified as Dangerous Goods.

15. REGULATORY INFORMATION

US/Canada Information		
OSHA Hazard Communication	Standard, 29CFR 1910. 1200	
	: Not regulated.	
Toxic Substance Control Act (1	TSCA)	
	: All chemical substances in this product comply with all applicable rules or orders under TSCA.	
RCRA (40 CFR 261)	: Product or components not listed.	
CERCLA/SARA Information		
NTP Annual Report on Carcinogens		
	: Not listed as an NTP carcinogen.	
California Proposition 65	: Neither toner, or any of the components, are listed as chemicals known to the State of California to cause cancer or reproductive system effects.	
Controlled Products Regulations (Canada)		
	: This product has been classified in accordance with the hazard criteria of the CPR.	
Workplace Hazardous Materials Information System (Canada)		
	: No toxicology information available.	
Other State Regulations	: Carbon black is listed in the New Jersey Right to Know List, Pennsylvania Hazardous Substance List, and Massachusetts Substance List.	
U.S./Canada Label Statements	: LOW HAZARD FOR RECOMMENDED HANDLING. Minimize dust generation and accumulation. Use with adequate ventilation.	



EU	Information
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Label Information According to Directives 67/548 EEC & 1999/45 EC

Symbol & Indication	: Not required.
Risk Phrase	: Not required.
Safety Advise Phrase	: Not required.
76/769/EEC	: All chemical substances in this product comply with all applicable rules or order under 76/769/EEC.
National requirement	: No specific regulations or restrictions.
Regulation (EC) No. 1907/2006 (RI	EACH) : All chemical substances in this product comply with all
	applicable rules or order under 1907/2006.

16. OTHER INFORMATION		
National Fire Protection Association (NFPA) Classification.		
Flammability	:1	
Reactivity	: 0	
Health	: 0	
	(0 = insignificant, 1 = slight)	
Hazardous Materials Information Systems (HMIS).		

Red (Flammability)	:1
Yellow (Reactivity)	: 0
Blue (Acute Effects)	: 0
	(0 = insignificant, 1 = slight)

Notice : Judgments as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Oki Data Corporation extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

- Abbreviation : (1) OSHA PEL stands for Permissible Exposure Limit under Occupational Safety and Health Administration (USA).
 - (2) ACGIH TLV stands for Threshold Limit Value under American Conference of Governmental Industrial Hygienists (USA).
 - (3) DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft.
 - (4) TWA stands for Time Weighted Average.
 - (5) NTP stands for National Toxicology Program (USA).
 - (6) NIOSH stands for National Institute for Occupational Safety and Health (USA).
 - (7) DOT stands for Department of Transportation (USA).
 - (8) NOHSC stands for National Occupational Heath and Safety Commission (Australia).

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	: Yellow toner (cartridge) for
	ES9465MFP / ES9475MFP (Toner powder name : T-FC50U-Y)
Manufacturer	: Oki Data Corporation
	: 3-1 Futaba-cho, Takasaki-shi, Gunma. 370-8585 JAPAN.
	Tel : +81-27-328-6366, Fax : +81-27-328-6396
Supplier	: Oki (Europe) Ltd.
	1 Oki Way, Wardpark, Cumbernauld G68 0FQ, SCOTLAND, UK.
	Tel. : +44(0) 1236 502502
Emergency Telephone	. No. : +44(0) 1236 502502

Emergency e-mail contact : MSDSQuestion@okieurope.com

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION		
PHYSICAL AND CHEMICAL HAZA	RDS	
EXPLOSIVES	: Not classified.	
FLAMMABLE GASES	: Not applicable.	
FLAMMABLE AEROSOLS	: Not applicable.	
OXIDIZING GASES	: Not applicable.	
GASES UNDER PRESSURE	: Not applicable.	
FLAMMABLE LIQUIDS	: Not applicable.	
FLAMMABLE SOLIDS	: Not classified.	
SELF-REACTIVE MIXTURES	: Not classified.	
PYROPHORIC LIQUIDS	: Not applicable.	
PYROPHORIC SOLIDS	: Not classified.	
SELF-HEATING MIXTURES	: Not classified.	
OXIDIIZING LIQUIDS	: Not classified.	
OXIDIIZING SOLIDS	: Not classified.	
ORGANICE PEROXIDES	: Not classified.	
CORROSIVE TO METALS	: Not classified.	
HEALTH HAZARDS		
ACUTE TOXICITY (Oral)	: Not classified.	
ACUTE TOXICITY (Dermal)	: Classification not possible.	
ACUTE TOXICITY (Inhalation-Ga	as) : Not applicable.	
ACUTE TOXICITY (Inhalation-Va	• /	
ACUTE TOXICITY (Inhalation-Du	ist) : Not classified.	
SKIN CORROSION / IRRITATION	: Not classified.	
SERIOUS EYE DAMAGE / EYE I	RRITATION : Classification not possible.	
RESPIRATORY SENSITIZATION	: Classification not possible.	
SKIN SENSITIZATION	: Not classified.	
GERM CELL MUTAGENICITY	: Classification not possible.	
CARCINOGENICITY	: Classification not possible.	
REPRODUCTIVE TOXICITY	: Classification not possible.	
SPECIFIC TARGET ORGAN SYS		
- SINGLE EXPOSURE	: Classification not possible.	
- REPEATED EXPOSURE	: Classification not possible.	
ASPIRATION HAZARD	: Classification not possible.	
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ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE TOXICITY - CHRONIC TOXICITY GHS LABEL ELEMENTS OTHER HAZARDS DUST EXPLOSIBILITY

: Not classified.

- : Classification not possible.
- : Not applicable.

: The potential dust explosion level equivalent to common powder (See the section 9).

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE : Mixture INGREDIENTS AND CONCENTRATION RANGE

INGREDIENT(S)	CAS No.	Concentration Range(wt%)
Polyester resin	Trade secret	78-87
Organic Pigment	Trade secret	6-9
Wax	Trade secret	4-7
Amorphous Silica	7631-86-9	3-6
Titanium dioxide	13463-67-7	0.1-0.9

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.

4. FIRST AID MEASURES	
IN CASE OF EYE CONTACT	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After initial flushing, remove any contact lenses and continue flushing. Get medical attention/advice if irritation occurs.
IN CASE OF SKIN CONTACT	: Gently wash with plenty of soap and water. If concerned: Get medical attention/advice.
IN CASE OF INHALATION	: Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
IN CASE OF INGESTION	: Wash out mouth with water. If material has been swallowed, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

5. FIRE FIGHTING MEASURES	
EXTINGUISHING MEDIA	: Use water spray, foam, dry chemical or powder extinguishing media.
NOT SUITABLE EXTINGUISHING M	IEDIA : Do not use a solid water streams.
SPECIAL HAZARDS	: There have possibilities to generate irritating or toxic gases.
ADVICE FOR FIREFIGHTERS	: Keep away from sources of ignition and use the appropriate extinguishing media. Fight fire from upwind position if possible.
PROTECTION OF FIREFIGHTERS	: Use appropriate protective equipment, goggles, dust mask, and another protections depending on the situation.
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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

- : Avoid breathing dust.
- Use appropriate protective equipment, mask, goggles, protective gloves...etc
- When large spills, evacuate person to safe place.
- Provide adequate ventilation.
- Operate from upwind position.

ENVIRONMENTAL PRECAUTIONS

: - Avoid dispersal of spilled material.

- Do not discharge into drains, waterways and sewers directly.

METHODS FOR CLEANING UP

: Vacuum up or sweep up the spilled material and collect in suitable container for disposal. Use spark-proof tools and explosion-proof equipment.

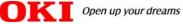
PREVENTION OF SECONDARY HAZARDS

: No information available.

7. HANDLING AND STORAGE	E
HANDLING	
TECHNICAL MEASURES	: No special equipment are necessity for operating under usual conditions.
PRECAUTIONS	: - Avoid inhalation of fine dust.
	 Keep away from excessive heat, sparks and open flames.
	 Keep cartridge (material) out of reach of children.
SAFE HANDLING ADVICE	: - Provide adequate ventilation.
	- Wash hands after handling.
	 Use appropriate protective equipment as required.
STORAGE	
SUITABLE STORAGE CONDITIO	NS
	: - Store in hermetically-sealed container.
	 Protected from direct sunlight in a dry, cool and well-ventilated area.
	- Do not store above the following temperature: 35°C.
SAFE PACKAGING MATERIALS	: No information available.
8. EXPOSURE CONTROLS/P	ERSONAL PROTECTION
ENGINEERING MEASURES	: No special equipment are necessity for operating under usual conditions. Use local exhaust ventilation, in the case of dust discharging.
LIMIT VALUES	
ACGIH (TLV)	: Toner : 10mg/m3 TWA (inhalable particles, recommended); 3mg/m3 TWA (respirable particles, recommended) Amorphous Silica : TWA 10mg/m3 Titanium Dioxide : 10mg/m3 TLV

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OSHA (PEL)	: Toner : 15mg/m3 TWA (total dust);
	5mg/m3 TWA (respirable fraction)
	Titanium Dioxide : TWA 15mg/m3
EU OEL	: Not established.
DFG MAK	: Dust (Toner) : 4mg/m3 (Inhalable fraction)
	1.5mg/m3 (Respirable fraction)
PERSONAL PROTECTIVE EQUIP	
RESPIRATORY PROTECTION	: Use dust mask up to the situation.
HAND PROTECTION	: Use rubber gloves up to the situation.
EYE PROTECTION	: Use safety glasses or goggles up to the situation.
SKIN AND BODY PROTECTION	• •
HYGIENE MEASURES	: No information available.
9. PHYSICAL AND CHEMIC	AL PROPERTIES
PHYSICAL STATES	
	solid Powder.
COLOUR : Yello	
ODOUR : Odou	
	pplicable.
	RATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR
	formation available.
	150 degree (Softening point)
	pplicable.
FLAMMABILITY OR EXPLOSIVE	
FLAMMABILITY OR EXPLOSIV	
	LOWER LIMIT : No information available.
	pplicable.
	pplicable.
SPECIFIC GRAVITY (DENSITY)	: 1.1 - 1.5
SOLUBILITY	
WATER SOLUBILITY : Insol	
SOLVENT SOLUBILITY : Partia	ally soluble in toluene, chloroform and tetrahydrofuran.
PARTITION COEFFICIENT	
n-OCTANOL / WATER (log Pow	•
AUTO-IGNITION TEMPERATURE	
ODOUR THRESHOLD	: No information available.
EVAPORATION RATE	: No information available.
FLAMMABILITY (SOLD, GAS)	: No information available.
VISCOSITY	: No information available.
OTHER DATA	: No information available.
EXPLOSIVE PROPERTIES	: Little possibility in intended use.
	According to Explosive Evaluation, can form explosive dust-air
	mixtures when finely dispersed in air, like most finely grained
	organic powders.



10. STABILITY AND REACTIVITY

REACTIIVITY : Low reactivity.

CHEMICAL STABILITY : Stable in general.

POSSIBILITY OF HAZARDOUS REACTIONS

: None under normal processing. Hazardous Polymerization will not occur.

CONDITIONS TO AVOID : Electric discharge, throwing into fire.

INCOMPATIBLE MATERIALS : The product should be kept away from oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS : Carbon monoxide and carbon dioxide.

OTHERS : No information available.

11. SUPPLEMENTAL HEALTH INFORMATION

Acute oral toxicity	: LD50 is greater than 2,000mg/kg.
	(This was the highest attainable mass.)
Acute inhalation	: LC50 (4H) is in excess of 5.06mg/l.
	(This was the highest attainable concentration.)
Eye irritation	: Mildly irritating. Not classified by GHS.
Skin irritation	: Mildly irritating. Not classified by GHS.
Skin sensitization	: Non-sensitizer.
Mutagenicity	: Negative in the Ames test.
Carcinogenicity	: The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans). In animal chronic inhalation studies, carcinogenicity was observed in only specific rats. This is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Epidemiological study to date have not revealed any evidence of the relation between work exposure of titanium dioxide and respiratory diseases.
Chronic Effects	 In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92 % of the rats in the high concentration (16 mg/m3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4 mg/m3) exposure group. These findings are attributed to "lung overloading", a general response to excessive amounts of any dust retained in the lungs for a prolonged period.
OTHER INFORMATION	: No information available.

12. ECOLOGICAL INFORMATION			
Aquatic environment	: LC50 is greater than 100mg/L (fish).		
	: EC50 is greater than 100mg/L (daphnia).		
	: EbC50 is greater than 100mg/L (Algal).		
	(This was the highest attainable mass.)		
PERSISTENCE / DEGRADABILITY	: No information available.		
MOBILITY IN SOIL	: No information available.		
BIOACCUMULATIVE POTENTIAL	: No information available.		
OTHER ADVERSE EFFECTS	: No information available.		

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13. DISPOSAL CONSIDERATION

Review "HANDLING AND STORAGE (Section7)".

Dispose this article comply with the regulations of each countries.

14. TRANSPORTATION INFORMATION

Special Precautions	: None.	
International Transport	Information	
UN Classification Nun	nber :	Not applicable.
Land DOT 49 CFR, A	DR :	Not classified as Dangerous Goods.
Sea IMDG Code	:	Not classified as Dangerous Goods.
Air ICAO-TI	:	Not classified as Dangerous Goods.
15. REGULATORY IN	NFORMATI	ON

US/Canada Information			
OSHA Hazard Communication Standard, 29CFR 1910. 1200			
	: Not regulated.		
Toxic Substance Control Act (TSCA)			
	: All chemical substances in this product comply with all applicable rules or orders under TSCA.		
RCRA (40 CFR 261)	: Product or components not listed.		
CERCLA/SARA Information	: Not regulated.		
NTP Annual Report on Carcinog	ens		
	: Not listed as an NTP carcinogen.		
California Proposition 65	: Neither toner, or any of the components, are listed as chemicals		
	known to the State of California to cause cancer or reproductive system effects.		
Controlled Products Regulations	s (Canada)		
	: This product has been classified in accordance with the hazard criteria of the CPR.		
Workplace Hazardous Materials	Information System (Canada)		
: No toxicology information available.			
Other State Regulations	: Not listed in the New Jersey Right to Know List,		
-	Pennsylvania Hazardous Substance List, and Massachusetts Substance List.		
U.S./Canada Label Statements	: LOW HAZARD FOR RECOMMENDED HANDLING.		
	Minimize dust generation and accumulation. Use with adequate ventilation.		
EU Information			
Label Information According to	Directives 67/548 EEC & 1999/45 EC		
Symbol & Indication	: Not required.		
Risk Phrase	: Not required.		
Safety Advise Phrase	: Not required.		
76/769/EEC	: All chemical substances in this product comply with all applicable rules or order under 76/769/EEC.		
National requirement	: No specific regulations or restrictions.		
Regulation (EC) No. 1907/2006 (RE	ACH) : All chemical substances in this product comply with all applicable rules or order under 1907/2006.		

Hazard

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SAFETY DATA SHEET

16. OTHER INFORMATION

National Fire Protection Association (NFPA) Classification.

Flammability	: 1		
Reactivity	: 0		
Health	: 0		
	(0 = i	nsignificant, 1 = slight)	
lous Materials Inf	ormation	n Systems (HMIS).	
Red (Flammabi	lity)	:1	
Yellow (Reactiv	vity)	: 0	
Blue (Acute Eff	ects)	: 0	
•	•		

(0 = insignificant, 1 = slight)

: Judgments as to the suitability of information herein for purchaser's purposes are necessarily Notice purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Oki Data Corporation extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

Abbreviation

- : (1) OSHA PEL stands for Permissible Exposure Limit under Occupational Safety and Health Administration (USA).
- (2) ACGIH TLV stands for Threshold Limit Value under American Conference of Governmental Industrial Hygienists (USA).
- (3) DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft.
- (4) TWA stands for Time Weighted Average.
- (5) NTP stands for National Toxicology Program (USA).
- (6) NIOSH stands for National Institute for Occupational Safety and Health (USA).
- (7) DOT stands for Department of Transportation (USA).
- (8) NOHSC stands for National Occupational Heath and Safety Commission (Australia).

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SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	: Magenta toner (cartridge) for	
	ES9465MFP / ES9475MFP (Toner powder name : T-FC50U-M)	
Manufacturer	: Oki Data Corporation	
	: 3-1 Futaba-cho, Takasaki-shi, Gunma. 370-8585 JAPAN.	
	Tel : +81-27-328-6366, Fax : +81-27-328-6396	
Supplier	: Oki (Europe) Ltd.	
	1 Oki Way, Wardpark, Cumbernauld G68 0FQ, SCOTLAND, UK.	
	Tel. : +44(0) 1236 502502	
Emergency Telephone. No. : +44(0) 1236 502502		

Emergency e-mail contact : MSDSQuestion@okieurope.com

2. HAZARDS IDENTIFICATION

l	2: HAZARDO IDENTIFICATIO	1	
	GHS CLASSIFICATION		
	PHYSICAL AND CHEMICAL HAZAF	RDS	
	EXPLOSIVES	: Not classified.	
	FLAMMABLE GASES	: Not applicable.	
	FLAMMABLE AEROSOLS	: Not applicable.	
	OXIDIZING GASES	: Not applicable.	
	GASES UNDER PRESSURE	: Not applicable.	
	FLAMMABLE LIQUIDS	: Not applicable.	
	FLAMMABLE SOLIDS	: Not classified.	
	SELF-REACTIVE MIXTURES	: Not classified.	
	PYROPHORIC LIQUIDS	: Not applicable.	
	PYROPHORIC SOLIDS	: Not classified.	
	SELF-HEATING MIXTURES	: Not classified.	
	OXIDIIZING LIQUIDS	: Not classified.	
	OXIDIIZING SOLIDS	: Not classified.	
	ORGANICE PEROXIDES	: Not classified.	
	CORROSIVE TO METALS	: Not classified.	
	HEALTH HAZARDS		
	ACUTE TOXICITY (Oral)	: Not classified.	
	ACUTE TOXICITY (Dermal)	: Classification not possible.	
	ACUTE TOXICITY (Inhalation-Ga	s) : Not applicable.	
	ACUTE TOXICITY (Inhalation-Va	oor) : Classification not possible.	
	ACUTE TOXICITY (Inhalation-Du	st) : Not classified.	
	SKIN CORROSION / IRRITATION	: Not classified.	
	SERIOUS EYE DAMAGE / EYE IR	RITATION : Classification not possible.	
	RESPIRATORY SENSITIZATION	: Classification not possible.	
	SKIN SENSITIZATION	: Not classified.	
	GERM CELL MUTAGENICITY	: Classification not possible.	
	CARCINOGENICITY	: Classification not possible.	
	REPRODUCTIVE TOXICITY	: Classification not possible.	
	SPECIFIC TARGET ORGAN SYS		
	- SINGLE EXPOSURE	: Classification not possible.	
	- REPEATED EXPOSURE	: Classification not possible.	
	ASPIRATION HAZARD	: Classification not possible.	
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ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE TOXICITY - CHRONIC TOXICITY GHS LABEL ELEMENTS OTHER HAZARDS DUST EXPLOSIBILITY

: Not classified.

- : Classification not possible.
- : Not applicable.

: The potential dust explosion level equivalent to common powder (See the section 9).

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE : Mixture INGREDIENTS AND CONCENTRATION RANGE

INGREDIENT(S)	CAS No.	Concentration Range(wt%)
Polyester resin	Trade secret	78-87
Organic Pigment	Trade secret	6-9
Wax	Trade secret	4-7
Amorphous Silica	7631-86-9	3-6
Titanium dioxide	13463-67-7	0.1-0.9

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.

4. FIRST AID MEASURES	
IN CASE OF EYE CONTACT	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After initial flushing, remove any contact lenses and continue flushing. Get medical attention/advice if irritation occurs.
IN CASE OF SKIN CONTACT	: Gently wash with plenty of soap and water. If concerned: Get medical attention/advice.
IN CASE OF INHALATION	: Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
IN CASE OF INGESTION	: Wash out mouth with water. If material has been swallowed, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

5. FIRE FIGHTING MEASURES		
EXTINGUISHING MEDIA	: Use water spray, foam, dry chemical or powder extinguishing media.	
NOT SUITABLE EXTINGUISHING M	IEDIA : Do not use a solid water streams.	
SPECIAL HAZARDS	: There have possibilities to generate irritating or toxic gases.	
ADVICE FOR FIREFIGHTERS	: Keep away from sources of ignition and use the appropriate extinguishing media. Fight fire from upwind position if possible.	
PROTECTION OF FIREFIGHTERS	: Use appropriate protective equipment, goggles, dust mask, and another protections depending on the situation.	
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SAFETY DATA SHEET

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

- : Avoid breathing dust.
- Use appropriate protective equipment, mask, goggles, protective gloves...etc
- When large spills, evacuate person to safe place.
- Provide adequate ventilation.
- Operate from upwind position.

ENVIRONMENTAL PRECAUTIONS

: - Avoid dispersal of spilled material.

- Do not discharge into drains, waterways and sewers directly.

METHODS FOR CLEANING UP

: Vacuum up or sweep up the spilled material and collect in suitable container for disposal. Use spark-proof tools and explosion-proof equipment.

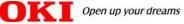
PREVENTION OF SECONDARY HAZARDS

: No information available.

7. HANDLING AND STORAGE	E
HANDLING	
TECHNICAL MEASURES	: No special equipment are necessity for operating under usual conditions.
PRECAUTIONS	: - Avoid inhalation of fine dust.
	 Keep away from excessive heat, sparks and open flames.
	 Keep cartridge (material) out of reach of children.
SAFE HANDLING ADVICE	: - Provide adequate ventilation.
	- Wash hands after handling.
	 Use appropriate protective equipment as required.
STORAGE	
SUITABLE STORAGE CONDITIO	NS
	: - Store in hermetically-sealed container.
	 Protected from direct sunlight in a dry, cool and well-ventilated area.
	- Do not store above the following temperature: 35°C.
SAFE PACKAGING MATERIALS	: No information available.
8. EXPOSURE CONTROLS/P	ERSONAL PROTECTION
ENGINEERING MEASURES	: No special equipment are necessity for operating under usual conditions. Use local exhaust ventilation, in the case of dust discharging.
LIMIT VALUES	
ACGIH (TLV)	: Toner : 10mg/m3 TWA (inhalable particles, recommended); 3mg/m3 TWA (respirable particles, recommended) Amorphous Silica : TWA 10mg/m3 Titanium Dioxide : 10mg/m3 TLV

SDS No. TNR-C75B-H for EU

OKI Open up your dreams	SAFETY DATA SHEET
OSHA (PEL)	: Toner : 15mg/m3 TWA (total dust);
	5mg/m3 TWA (respirable fraction)
	Titanium Dioxide : TWA 15mg/m3
EU OEL	: Not established.
DFG MAK	: Dust (Toner) : 4mg/m3 (Inhalable fraction)
	1.5mg/m3 (Respirable fraction)
PERSONAL PROTECTIVE EQUIPM	/ENT
RESPIRATORY PROTECTION	: Use dust mask up to the situation.
HAND PROTECTION	: Use rubber gloves up to the situation.
EYE PROTECTION	: Use safety glasses or goggles up to the situation.
SKIN AND BODY PROTECTION	: Wear protective suit up to the situation.
HYGIENE MEASURES	: No information available.
9. PHYSICAL AND CHEMICA	L PROPERTIES
PHYSICAL STATES	
FORM : Fine s	olid Powder.
COLOUR : Mager	nta.
ODOUR : Odour	less.
Ph VALUE : Not ap	oplicable.
SPECIFIC TEMPERATURES / TEMPER	ATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR
BOILING POINT : No inf	ormation available.
MELTING POINT : 110 - 1	50 degree (Softening point)
FLASH POINT : Not ap	oplicable.
FLAMMABILITY OR EXPLOSIVE P	ROPERTIES
FLAMMABILITY OR EXPLOSIVE	LIMITS : UPPER LIMIT : No information available.
	LOWER LIMIT : No information available.
VAPOUR PRESSURE : Not ap	oplicable.
VAPOUR DENSITY : Not ap	oplicable.
SPECIFIC GRAVITY (DENSITY)	: 1.1 - 1.5
SOLUBILITY	
WATER SOLUBILITY : Insolu	ble.
SOLVENT SOLUBILITY : Partia	lly soluble in toluene, chloroform and tetrahydrofuran.
PARTITION COEFFICIENT	
n-OCTANOL / WATER (log Pow)	: No information available.
AUTO-IGNITION TEMPERATURE	: No information available.
ODOUR THRESHOLD	: No information available.
EVAPORATION RATE	: No information available.
FLAMMABILITY (SOLD, GAS)	: No information available.
VISCOSITY	: No information available.
OTHER DATA	: No information available.
EXPLOSIVE PROPERTIES	: Little possibility in intended use.
	According to Explosive Evaluation, can form explosive dust-air
	mixtures when finely dispersed in air, like most finely grained
	organic powders.



10. STABILITY AND REACTIVITY

REACTIIVITY	: Low reactivity.

: Stable in general. CHEMICAL STABILITY

POSSIBILITY OF HAZARDOUS REACTIONS

: None under normal processing. Hazardous Polymerization will not occur.

CONDITIONS TO AVOID : Electric discharge, throwing into fire.

INCOMPATIBLE MATERIALS : The product should be kept away from oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS : Carbon monoxide and carbon dioxide.

OTHERS : No information available.

11. SUPPLEMENTAL HEALTH INFORMATION

Acute oral toxicity	: LD50 is greater than 2,000mg/kg.
Acute oral toxicity	(This was the highest attainable mass.)
Acute inhalation	: LC50 (4H) is in excess of 5.04mg/l.
	(This was the highest attainable concentration.)
Eye irritation	: Minimum irritating. Not classified by GHS.
Skin irritation	: Non-irritating. Not classified by GHS.
Skin sensitization	: Non-sensitizer.
Mutagenicity	: Negative in the Ames test.
Carcinogenicity	: The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans). In animal chronic inhalation studies, carcinogenicity was observed in only specific rats. This is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Epidemiological study to date have not revealed any evidence of the relation between work exposure of titanium dioxide and respiratory diseases.
Chronic Effects	 In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92 % of the rats in the high concentration (16 mg/m3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4 mg/m3) exposure group. These findings are attributed to "lung overloading", a general response to excessive amounts of any dust retained in the lungs for a prolonged period.
OTHER INFORMATION	: No information available.

12. ECOLOGICAL INFORMATION		
Aquatic environment	: LC50 is greater than 100mg/L (fish).	
	: EC50 is greater than 100mg/L (daphnia).	
	: EbC50 is greater than 100mg/L (Algal).	
	(This was the highest attainable mass.)	
PERSISTENCE / DEGRADABILITY	: No information available.	
MOBILITY IN SOIL	: No information available.	
BIOACCUMULATIVE POTENTIAL	: No information available.	
OTHER ADVERSE EFFECTS	: No information available.	

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13. DISPOSAL CONSIDERATION

Review "HANDLING AND STORAGE (Section7)".

Dispose this article comply with the regulations of each countries.

14. TRANSPORTATION INFORMATION

Special Precautions	: None.		
International Transport	Information		
UN Classification Nu	mber	: Not applicable.	
Land DOT 49 CFR,	ADR :	: Not classified as Dangerous Goods.	
Sea IMDG Code	:	: Not classified as Dangerous Goods.	
Air ICAO-TI	:	: Not classified as Dangerous Goods.	
15. REGULATORY I	NFORMAT	ION	

US/Canada Information	
OSHA Hazard Communication S	tandard, 29CFR 1910. 1200
	: Not regulated.
Toxic Substance Control Act (TS	CA)
	: All chemical substances in this product comply with all applicable rules or orders under TSCA.
RCRA (40 CFR 261)	: Product or components not listed.
CERCLA/SARA Information	: Not regulated.
NTP Annual Report on Carcinog	ens
	: Not listed as an NTP carcinogen.
California Proposition 65	: Neither toner, or any of the components, are listed as chemicals
	known to the State of California to cause cancer or reproductive system effects.
Controlled Products Regulations	s (Canada)
	: This product has been classified in accordance with the hazard criteria of the CPR.
Workplace Hazardous Materials	Information System (Canada)
-	: No toxicology information available.
Other State Regulations	: Not listed in the New Jersey Right to Know List,
-	Pennsylvania Hazardous Substance List, and Massachusetts Substance List.
U.S./Canada Label Statements	: LOW HAZARD FOR RECOMMENDED HANDLING.
	Minimize dust generation and accumulation. Use with adequate ventilation.
EU Information	
Label Information According to I	Directives 67/548 EEC & 1999/45 EC
Symbol & Indication	: Not required.
Risk Phrase	: Not required.
Safety Advise Phrase	: Not required.
76/769/EEC	: All chemical substances in this product comply with all applicable rules or order under 76/769/EEC.
National requirement	: No specific regulations or restrictions.
Regulation (EC) No. 1907/2006 (RE	ACH) : All chemical substances in this product comply with all applicable rules or order under 1907/2006.

Hazard

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16. OTHER INFORMATION

National Fire Protection Association (NFPA) Classification.

Flammability	: 1		
Reactivity	: 0		
Health	: 0		
	(0 = i	nsignificant, 1 = slight)	
lous Materials Inf	ormatior	n Systems (HMIS).	
Red (Flammabi	lity)	:1	
Yellow (Reactiv	vity)	: 0	
Blue (Acute Eff	ects)	: 0	
•			

(0 = insignificant, 1 = slight)

: Judgments as to the suitability of information herein for purchaser's purposes are necessarily Notice purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Oki Data Corporation extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

Abbreviation

- : (1) OSHA PEL stands for Permissible Exposure Limit under Occupational Safety and Health Administration (USA).
- (2) ACGIH TLV stands for Threshold Limit Value under American Conference of Governmental Industrial Hygienists (USA).
- (3) DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft.
- (4) TWA stands for Time Weighted Average.
- (5) NTP stands for National Toxicology Program (USA).
- (6) NIOSH stands for National Institute for Occupational Safety and Health (USA).
- (7) DOT stands for Department of Transportation (USA).
- (8) NOHSC stands for National Occupational Heath and Safety Commission (Australia).

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SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	: Cyan toner (cartridge) for
	ES9465MFP / ES9475MFP (Toner powder name : T-FC50U-C)
Manufacturer	: Oki Data Corporation
	: 3-1 Futaba-cho, Takasaki-shi, Gunma. 370-8585 JAPAN.
	Tel : +81-27-328-6366, Fax : +81-27-328-6396
Supplier	: Oki (Europe) Ltd.
	1 Oki Way, Wardpark, Cumbernauld G68 0FQ, SCOTLAND, UK.
	Tel. : +44(0) 1236 502502
Emergency Telephone	. No. : +44(0) 1236 502502

Emergency e-mail contact : MSDSQuestion@okieurope.com

2. HAZARDS IDENTIFICATION

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GHS CLASSIFICATION		
PHYSICAL AND CHEMICAL HAZA	RDS	
EXPLOSIVES	: Not classified.	
FLAMMABLE GASES	: Not applicable.	
FLAMMABLE AEROSOLS	: Not applicable.	
OXIDIZING GASES	: Not applicable.	
GASES UNDER PRESSURE	: Not applicable.	
FLAMMABLE LIQUIDS	: Not applicable.	
FLAMMABLE SOLIDS	: Not classified.	
SELF-REACTIVE MIXTURES	: Not classified.	
PYROPHORIC LIQUIDS	: Not applicable.	
PYROPHORIC SOLIDS	: Not classified.	
SELF-HEATING MIXTURES	: Not classified.	
OXIDIIZING LIQUIDS	: Not classified.	
OXIDIIZING SOLIDS	: Not classified.	
ORGANICE PEROXIDES	: Not classified.	
CORROSIVE TO METALS	: Not classified.	
HEALTH HAZARDS		
ACUTE TOXICITY (Oral)	: Not classified.	
ACUTE TOXICITY (Dermal)	: Classification not possible.	
ACUTE TOXICITY (Inhalation-Ga	s) : Not applicable.	
ACUTE TOXICITY (Inhalation-Va	por) : Classification not possible.	
ACUTE TOXICITY (Inhalation-Du	st) : Not classified.	
SKIN CORROSION / IRRITATION	: Not classified.	
SERIOUS EYE DAMAGE / EYE IF	RITATION : Classification not possible.	
RESPIRATORY SENSITIZATION	: Classification not possible.	
SKIN SENSITIZATION	: Not classified.	
GERM CELL MUTAGENICITY	: Classification not possible.	
CARCINOGENICITY	: Classification not possible.	
REPRODUCTIVE TOXICITY	: Classification not possible.	
SPECIFIC TARGET ORGAN SYS	TEMIC TOXICITY	
- SINGLE EXPOSURE	: Classification not possible.	
- REPEATED EXPOSURE	: Classification not possible.	
ASPIRATION HAZARD	: Classification not possible.	
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ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE TOXICITY - CHRONIC TOXICITY GHS LABEL ELEMENTS OTHER HAZARDS DUST EXPLOSIBILITY

: Not classified.

- : Classification not possible.
- : Not applicable.

: The potential dust explosion level equivalent to common powder (See the section 9).

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE : Mixture INGREDIENTS AND CONCENTRATION RANGE

INGREDIENT(S)	CAS No.	Concentration Range(wt%)
Polyester resin	Trade secret	78-87
Organic Pigment	Trade secret	6-9
Wax	Trade secret	4-7
Amorphous Silica	7631-86-9	3-6
Titanium dioxide	13463-67-7	0.1-0.9

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.

4. FIRST AID MEASURES	
IN CASE OF EYE CONTACT	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. After initial flushing, remove any contact lenses and continue flushing. Get medical attention/advice if irritation occurs.
IN CASE OF SKIN CONTACT	: Gently wash with plenty of soap and water. If concerned: Get medical attention/advice.
IN CASE OF INHALATION	: Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
IN CASE OF INGESTION	: Wash out mouth with water. If material has been swallowed, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

5. FIRE FIGHTING MEASURE	S
EXTINGUISHING MEDIA	: Use water spray, foam, dry chemical or powder extinguishing media.
NOT SUITABLE EXTINGUISHING N	IEDIA : Do not use a solid water streams.
SPECIAL HAZARDS	: There have possibilities to generate irritating or toxic gases.
ADVICE FOR FIREFIGHTERS	: Keep away from sources of ignition and use the appropriate extinguishing media. Fight fire from upwind position if possible.
PROTECTION OF FIREFIGHTERS	: Use appropriate protective equipment, goggles, dust mask, and another protections depending on the situation.
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SAFETY DATA SHEET

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

- : Avoid breathing dust.
- Use appropriate protective equipment, mask, goggles, protective gloves...etc
- When large spills, evacuate person to safe place.
- Provide adequate ventilation.
- Operate from upwind position.

ENVIRONMENTAL PRECAUTIONS

: - Avoid dispersal of spilled material.

- Do not discharge into drains, waterways and sewers directly.

METHODS FOR CLEANING UP

: Vacuum up or sweep up the spilled material and collect in suitable container for disposal. Use spark-proof tools and explosion-proof equipment.

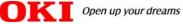
PREVENTION OF SECONDARY HAZARDS

: No information available.

7. HANDLING AND STORAGE	E
HANDLING	
TECHNICAL MEASURES	: No special equipment are necessity for operating under usual conditions.
PRECAUTIONS	: - Avoid inhalation of fine dust.
	 Keep away from excessive heat, sparks and open flames.
	 Keep cartridge (material) out of reach of children.
SAFE HANDLING ADVICE	: - Provide adequate ventilation.
	- Wash hands after handling.
	 Use appropriate protective equipment as required.
STORAGE	
SUITABLE STORAGE CONDITIO	NS
	: - Store in hermetically-sealed container.
	 Protected from direct sunlight in a dry, cool and well-ventilated area.
	- Do not store above the following temperature: 35°C.
SAFE PACKAGING MATERIALS	: No information available.
8. EXPOSURE CONTROLS/P	ERSONAL PROTECTION
ENGINEERING MEASURES	: No special equipment are necessity for operating under usual conditions. Use local exhaust ventilation, in the case of dust discharging.
LIMIT VALUES	
ACGIH (TLV)	: Toner : 10mg/m3 TWA (inhalable particles, recommended); 3mg/m3 TWA (respirable particles, recommended) Amorphous Silica : TWA 10mg/m3 Titanium Dioxide : 10mg/m3 TLV

SDS No. TNR-C75B-H for EU

OKI Open up your dreams	SAFETY DATA SHEET
OSHA (PEL)	: Toner : 15mg/m3 TWA (total dust);
	5mg/m3 TWA (respirable fraction)
	Titanium Dioxide : TWA 15mg/m3
EU OEL	: Not established.
DFG MAK	: Dust (Toner) : 4mg/m3 (Inhalable fraction)
	1.5mg/m3 (Respirable fraction)
PERSONAL PROTECTIVE EQUIPM	1ENT
RESPIRATORY PROTECTION	: Use dust mask up to the situation.
HAND PROTECTION	: Use rubber gloves up to the situation.
EYE PROTECTION	: Use safety glasses or goggles up to the situation.
SKIN AND BODY PROTECTION	: Wear protective suit up to the situation.
HYGIENE MEASURES	: No information available.
9. PHYSICAL AND CHEMICA	L PROPERTIES
PHYSICAL STATES	
	olid Powder.
COLOUR : Cyan.	
ODOUR : Odour	
•	oplicable.
	ATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR
BOILING POINT : No inf	ormation available.
MELTING POINT : 110 - 1	50 degree (Softening point)
FLASH POINT : Not ap	plicable.
FLAMMABILITY OR EXPLOSIVE P	
FLAMMABILITY OR EXPLOSIVE	LIMITS : UPPER LIMIT : No information available.
	LOWER LIMIT : No information available.
-	pplicable.
-	pplicable.
SPECIFIC GRAVITY (DENSITY)	: 1.1 - 1.5
SOLUBILITY	
WATER SOLUBILITY : Insolu	
	lly soluble in toluene, chloroform and tetrahydrofuran.
PARTITION COEFFICIENT	
n-OCTANOL / WATER (log Pow)	
AUTO-IGNITION TEMPERATURE	: No information available.
ODOUR THRESHOLD	: No information available.
EVAPORATION RATE	: No information available.
FLAMMABILITY (SOLD, GAS)	: No information available.
VISCOSITY	: No information available.
OTHER DATA	: No information available.
EXPLOSIVE PROPERTIES	: Little possibility in intended use.
	According to Explosive Evaluation, can form explosive dust-air
	mixtures when finely dispersed in air, like most finely grained organic powders.



10. STABILITY AND REACTIVITY

REACTIIVITY : Low reactivity.

CHEMICAL STABILITY : Stable in general.

POSSIBILITY OF HAZARDOUS REACTIONS

: None under normal processing. Hazardous Polymerization will not occur.

CONDITIONS TO AVOID : Electric discharge, throwing into fire.

INCOMPATIBLE MATERIALS : The product should be kept away from oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS : Carbon monoxide and carbon dioxide.

OTHERS : No information available.

11. SUPPLEMENTAL HEALTH INFORMATION

Acute oral toxicity	: LD50 is greater than 2,000mg/kg.			
	(This was the highest attainable mass.)			
Acute inhalation	: LC50 (4H) is in excess of 5.03mg/l.			
	(This was the highest attainable concentration.)			
Eye irritation	: Mildly irritating. Not classified by GHS.			
Skin irritation	: Mildly irritating. Not classified by GHS.			
Skin sensitization	: Non-sensitizer.			
Mutagenicity	: Negative in the Ames test.			
Carcinogenicity	: The IARC reevaluated titanium dioxide as a Group 2B carcinogen (possibly carcinogenic to humans). In animal chronic inhalation studies, carcinogenicity was observed in only specific rats. This is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Epidemiological study to date have not revealed any evidence of the relation between work exposure of titanium dioxide and respiratory diseases.			
Chronic Effects	 In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92 % of the rats in the high concentration (16 mg/m3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4 mg/m3) exposure group. These findings are attributed to "lung overloading", a general response to excessive amounts of any dust retained in the lungs for a prolonged period. 			
OTHER INFORMATION	: No information available.			

12. ECOLOGICAL INFORMATION				
Aquatic environment	: LC50 is greater than 100mg/L (fish).			
	: EC50 is greater than 100mg/L (daphnia).			
	: EbC50 is greater than 100mg/L (Algal).			
	(This was the highest attainable mass.)			
PERSISTENCE / DEGRADABILITY	: No information available.			
MOBILITY IN SOIL	: No information available.			
BIOACCUMULATIVE POTENTIAL	: No information available.			
OTHER ADVERSE EFFECTS	: No information available.			

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13. DISPOSAL CONSIDERATION

Review "HANDLING AND STORAGE (Section7)".

Dispose this article comply with the regulations of each countries.

14. TRANSPORTATION INFORMATION

Special Precautions	: None.	
International Transport I	nformation	
UN Classification Nun	nber :	Not applicable.
Land DOT 49 CFR, A	DR :	Not classified as Dangerous Goods.
Sea IMDG Code	:	Not classified as Dangerous Goods.
Air ICAO-TI	:	Not classified as Dangerous Goods.
15. REGULATORY IN	FORMAT	ON

US/Canada Information					
OSHA Hazard Communication S	tandard, 29CFR 1910. 1200				
	: Not regulated.				
Toxic Substance Control Act (TS	CA)				
	: All chemical substances in this product comply with all applicable rules or orders under TSCA.				
RCRA (40 CFR 261)	: Product or components not listed.				
CERCLA/SARA Information	: Not regulated.				
NTP Annual Report on Carcinogens					
	: Not listed as an NTP carcinogen.				
California Proposition 65	: Neither toner, or any of the components, are listed as chemicals				
	known to the State of California to cause cancer or reproductive system effects.				
Controlled Products Regulations	s (Canada)				
	: This product has been classified in accordance with the hazard criteria of the CPR.				
Workplace Hazardous Materials	Information System (Canada)				
	: No toxicology information available.				
Other State Regulations	: Not listed in the New Jersey Right to Know List,				
	Pennsylvania Hazardous Substance List, and Massachusetts Substance List.				
U.S./Canada Label Statements	: LOW HAZARD FOR RECOMMENDED HANDLING.				
	Minimize dust generation and accumulation. Use with adequate ventilation.				
EU Information					
Label Information According to I	Directives 67/548 EEC & 1999/45 EC				
Symbol & Indication	: Not required.				
Risk Phrase	: Not required.				
Safety Advise Phrase	: Not required.				
76/769/EEC	: All chemical substances in this product comply with all applicable rules or order under 76/769/EEC.				
National requirement	: No specific regulations or restrictions.				
Regulation (EC) No. 1907/2006 (RE	ACH) : All chemical substances in this product comply with all applicable rules or order under 1907/2006.				

Hazard

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16. OTHER INFORMATION

National Fire Protection Association (NFPA) Classification.

Flammability	: 1		
Reactivity	: 0		
Health	: 0		
	(0 = i	nsignificant, 1 = slight)	
lous Materials Inf	ormation	n Systems (HMIS).	
Red (Flammabi	lity)	:1	
Yellow (Reactivity)		: 0	
Blue (Acute Effects)		: 0	
•	•		

(0 = insignificant, 1 = slight)

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Abbreviation

- : (1) OSHA PEL stands for Permissible Exposure Limit under Occupational Safety and Health Administration (USA).
- (2) ACGIH TLV stands for Threshold Limit Value under American Conference of Governmental Industrial Hygienists (USA).
- (3) DFG-MAK stands for Maximale Arbeitsplatzkonzentrationen under Deutsche Forschungsgemeinschaft.
- (4) TWA stands for Time Weighted Average.
- (5) NTP stands for National Toxicology Program (USA).
- (6) NIOSH stands for National Institute for Occupational Safety and Health (USA).
- (7) DOT stands for Department of Transportation (USA).
- (8) NOHSC stands for National Occupational Heath and Safety Commission (Australia).