

SAFETY DATA SHEET

**Developer powder (Cartridge) for
ES9455MFP / ES9465MFP / ES9475MFP**

Oki Data Corporation

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Black developer (cartridge) for
ES9455MFP / ES9465MFP / ES9475MFP
(Developer powder name : D-FC30-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

Australia : Oki Data (Australia) Pty Ltd.
Level 1, 67 Epping Road • Macquarie Park NSW 2113 Australia
Tel: 1800 800 140
e-mail: aus-MSDSQuestions@oki.com

Singapore : Oki Data (Singapore) Pte Ltd
438A Alexandra Road #02-11/12, Lift Lobby 3, Alexandra Technopark,
Singapore 119967,
Tel: +65 6221 3722
e-mail: odsp-sales@oki.com

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATION****PHYSICAL AND CHEMICAL HAZARDS**

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.

OXIDIZING LIQUIDS : Not classified.

OXIDIZING SOLIDS : Not classified.

ORGANIC 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) : Not applicable.

ACUTE TOXICITY (Inhalation-Vapor) : Classification not possible.

ACUTE TOXICITY (Inhalation-Dust) : Not classified.

SKIN CORROSION / IRRITATION : Not classified.

SERIOUS EYE DAMAGE / EYE IRRITATION : Classification not possible.

RESPIRATORY SENSITIZATION : Classification not possible.

SKIN SENSITIZATION : Not classified.

GERM CELL MUTAGENICITY : Not classified.
 CARCINOGENICITY : Classification not possible.
 REPRODUCTIVE TOXICITY : Classification not possible.
 - SINGLE EXPOSURE : Classification not possible.
 - REPEATED EXPOSURE : Classification not possible.
 ASPIRATION HAZARD : Not applicable.

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT
 - ACUTE HAZARD : Classification not possible.
 - LONG-TERM HAZARD : Classification not possible.
HAZARDOUS TO THE OZONE LAYER : Classification not possible.

GHS LABEL ELEMENTS : None.
 OTHER HAZARDS : No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

INGREDIENT(S)	CAS No.	Concentration Range(wt%)
Ceramic materials and wares, chemicals (Ferrite)	66402-68-4	>90
Polyester resin	Trade secret	<10
Carbon black	1333-86-4	<1
Amorphous Silica	7631-86-9	<1

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

Eye Contact : Immediately flush eyes with plenty of water for at least 15 minutes.
 If irritation persists, call a physician.
Skin Contact : Wash with soap and water. Wash clothing before reuse.
 If irritation occurs or is persistent, seek medical attention.
Ingestion : Dilute stomach contents with several glasses of water.
Inhalation : Remove from exposure area to fresh air immediately.
 Contact a physician if there is any difficulty in breathing or other signs of distress.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Foam, halon, carbon dioxide, dry chemical & water fog.
NOT SUITABLE EXTINGUISHING MEDIA : Do not use a solid water streams.
SPECIAL HAZARDS : Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
ADVICE FOR FIREFIGHTERS : No information available.
PROTECTION OF FIREFIGHTERS : Use appropriate protective equipment, goggles, dust mask, and another protections depending on the situation.

ACGIH TLVs (TWA)

as the product : 10mg/m³ (Total dust)
3mg/m³ (Respirable fraction)

Ingredients : Not established.
3.5mg/m³ (Carbon black)

EU OEL

as the product : Not established.

Ingredients : Not established.

DFG-MAK (TWA)

as the product : 4mg/m³ (Inhalable fraction)
1.5mg/m³ (Respirable fraction)

Ingredients : Not established

Engineering Controls : Maintain adequate ventilation.

Eye Protection : Not required under intended use.

Skin Protection : Not required under intended use.

Respiratory Protection : Not required under intended use.

9. PHYSICAL AND CHEMICAL PROPERTIES**PHYSICAL STATES**

APPEARANCE : Fine solid Powder.

COLOUR : Black.

ODOUR : Odourless.

pH VALUE : Not applicable.

SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No information available.

MELTING POINT : No information available.

FLASH POINT : Not applicable

FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE LIMITS : UPPER LIMIT : No information available.

LOWER LIMIT : No information available.

VAPOUR PRESSURE : Not applicable.

VAPOUR DENSITY : Not applicable.

SPECIFIC GRAVITY (DENSITY) : 1.4 - 2.0

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Partially 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.

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

Acute oral toxicity	: LD50 is greater than 2,000mg/kg. (This was the highest attainable mass.)
Acute inhalation (Toner in Developer)	: LC50 (4H) is in excess of 5.05mg/l. (This was the highest attainable concentration.)
Eye irritation	: Minimum irritant. Not classified by GHS (Estimate from ingredients.).
Skin irritation	: Mild irritant. Not classified by GHS (Estimate from ingredients.).
Skin sensitization	: Non-sensitizer. (Estimate from ingredients)
Mutagenicity	: Negative in the Ames test.(Estimate from ingredients.)
Carcinogenicity	: None known.
Chronic Effects	: None known.
Other information	: No information available.

12. ECOLOGICAL INFORMATION

Aquatic environment	
LC50	: No information available. (fish)
EC50	: No information available. (daphnia)
Eb50	: No information available. (Algal)
PERSISTENCE / DEGRADABILITY	: No information available.
MOBILITY IN SOIL	: No information available.
BIOACCUMULATIVE POTENTIAL	: No information available.
OTHER ADVERSE EFFECTS	: No information available.

13. DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulation.
Empty plastic container may be recycled.

14. TRANSPORTATION INFORMATION

Special Precautions	: None
International Transport Information	
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 (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 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

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

Symbol & Indication : Not required.

Risk Phrase : Not required.

Safety Advise Phrase : Not required.

National requirement : No specific regulations or restrictions.

Regulation (EC) No. 1907/2006 (REACH)

: 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)

15. REGULATORY INFORMATION

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 Health and Safety Commission (Australia).

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Yellow developer (cartridge) for
ES9455MFP / ES9465MFP / ES9475MFP
(Developer powder name : D-FC30-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

Australia : Oki Data (Australia) Pty Ltd.
Level 1, 67 Epping Road • Macquarie Park NSW 2113 Australia
Tel: 1800 800 140
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438A Alexandra Road #02-11/12, Lift Lobby 3, Alexandra Technopark,
Singapore 119967,
Tel: +65 6221 3722
e-mail: odsp-sales@oki.com

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATION****PHYSICAL AND CHEMICAL HAZARDS**

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.

OXIDIZING LIQUIDS : Not classified.

OXIDIZING SOLIDS : Not classified.

ORGANIC 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) : Not applicable.

ACUTE TOXICITY (Inhalation-Vapor) : Classification not possible.

ACUTE TOXICITY (Inhalation-Dust) : Not classified.

SKIN CORROSION / IRRITATION : Not classified.

SERIOUS EYE DAMAGE / EYE IRRITATION : Classification not possible.

RESPIRATORY SENSITIZATION : Classification not possible.

SKIN SENSITIZATION : Not classified.

GERM CELL MUTAGENICITY : Not classified.
 CARCINOGENICITY : Classification not possible.
 REPRODUCTIVE TOXICITY : Classification not possible.
 - SINGLE EXPOSURE : Classification not possible.
 - REPEATED EXPOSURE : Classification not possible.
 ASPIRATION HAZARD : Not applicable.

ENVIRONMENTAL HAZARDS**HAZARDOUS TO THE AQUATIC ENVIRONMENT**

- ACUTE HAZARD : Classification not possible.
 - LONG-TERM HAZARD : Classification not possible.

HAZARDOUS TO THE OZONE LAYER : Classification not possible.

GHS LABEL ELEMENTS : None.
 OTHER HAZARDS : No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

<u>INGREDIENT(S)</u>	<u>CAS No.</u>	<u>Concentration Range(wt%)</u>
Ceramic materials and wares, chemicals (Ferrite)	66402-68-4	>90
Polyester resin	Trade secret	<10
Organic Pigment	Trade secret	<1
Amorphous Silica	7631-86-9	<1

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

Eye Contact : Immediately flush eyes with plenty of water for at least 15 minutes.
 If irritation persists, call a physician.
 Skin Contact : Wash with soap and water. Wash clothing before reuse.
 If irritation occurs or is persistent, seek medical attention.
 Ingestion : Dilute stomach contents with several glasses of water.
 Inhalation : Remove from exposure area to fresh air immediately.
 Contact a physician if there is any difficulty in breathing or other signs of distress.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Foam, halon, carbon dioxide, dry chemical & water fog.
 NOT SUITABLE EXTINGUISHING MEDIA : Do not use a solid water streams.
 SPECIAL HAZARDS : Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
 ADVICE FOR FIREFIGHTERS : No information available.
 PROTECTION OF FIREFIGHTERS : Use appropriate protective equipment, goggles, dust mask, and another protections depending on the situation.

6. ACCIDENTAL RELEASE MEASURES

SPIILLS, LEAKS : Vacuum-clean spilled developer and carefully transfer into sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up. Residue can be removed with soap and cold water.

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**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 package (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 MATERIALS : No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Limits**

OSHA PELs (TWA)
as the product : 15mg/m³ (Total dust)
5mg/m³ (Respirable fraction)
Ingredients : 10mg/m³ (Amorphous Silica)

ACGIH TLVs (TWA)

as the product : 10mg/m³ (Total dust)
3mg/m³ (Respirable fraction)

Ingredients : Not established.

EU OEL

as the product : Not established.

Ingredients : Not established.

DFG-MAK (TWA)

as the product : 4mg/m³ (Inhalable fraction)
1.5mg/m³ (Respirable fraction)

Ingredients : Not established

Engineering Controls : Maintain adequate ventilation.

Eye Protection : Not required under intended use.

Skin Protection : Not required under intended use.

Respiratory Protection : Not required under intended use.

9. PHYSICAL AND CHEMICAL PROPERTIES**PHYSICAL STATES**

APPEARANCE : Fine solid Powder.

COLOUR : Yellow.

ODOUR : Odourless.

pH VALUE : Not applicable.

SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No information available.

MELTING POINT : No information available.

FLASH POINT : Not applicable

FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE LIMITS : UPPER LIMIT : No information available.

LOWER LIMIT : No information available.

VAPOUR PRESSURE : Not applicable.

VAPOUR DENSITY : Not applicable.

SPECIFIC GRAVITY (DENSITY) : 1.4 - 2.0

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Partially 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.

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

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.

(Toner in Developer) (This was the highest attainable concentration.)

Eye irritation : Mild irritant. Not classified by GHS (Estimate from ingredients.).

Skin irritation : Mild irritant. Not classified by GHS (Estimate from ingredients.).

Skin sensitization : Non-sensitizer. (Estimate from ingredients)

Mutagenicity : Negative in the Ames test.(Estimate from ingredients.)

Carcinogenicity : None known.

Chronic Effects : None known.

Other information : No information available.

12. ECOLOGICAL INFORMATION

Aquatic environment

LC50 : No information available. (fish)

EC50 : No information available. (daphnia)

Eb50 : No information available. (Algal)

PERSISTENCE / DEGRADABILITY : No information available.

MOBILITY IN SOIL : No information available.

BIOACCUMULATIVE POTENTIAL : No information available.

OTHER ADVERSE EFFECTS : No information available.

13. DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulation.

Empty plastic container may be recycled.

14. TRANSPORTATION INFORMATION

Special Precautions : None

International Transport Information

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 (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 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 : 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.

National requirement : No specific regulations or restrictions.

Regulation (EC) No. 1907/2006 (REACH)

: 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)

15. REGULATORY INFORMATION

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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 Health and Safety Commission (Australia).

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Magenta developer (cartridge) for
ES9455MFP / ES9465MFP / ES9475MFP
(Developer powder name : D-FC30-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

Australia : Oki Data (Australia) Pty Ltd.
Level 1, 67 Epping Road • Macquarie Park NSW 2113 Australia
Tel: 1800 800 140
e-mail: aus-MSDSQuestions@oki.com

Singapore : Oki Data (Singapore) Pte Ltd
438A Alexandra Road #02-11/12, Lift Lobby 3, Alexandra Technopark,
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Tel: +65 6221 3722
e-mail: odsp-sales@oki.com

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATION****PHYSICAL AND CHEMICAL HAZARDS**

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.

OXIDIZING LIQUIDS : Not classified.

OXIDIZING SOLIDS : Not classified.

ORGANIC 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) : Not applicable.

ACUTE TOXICITY (Inhalation-Vapor) : Classification not possible.

ACUTE TOXICITY (Inhalation-Dust) : Not classified.

SKIN CORROSION / IRRITATION : Not classified.

SERIOUS EYE DAMAGE / EYE IRRITATION : Classification not possible.

RESPIRATORY SENSITIZATION : Classification not possible.

SKIN SENSITIZATION : Not classified.

GERM CELL MUTAGENICITY : Not classified.
 CARCINOGENICITY : Classification not possible.
 REPRODUCTIVE TOXICITY : Classification not possible.
 - SINGLE EXPOSURE : Classification not possible.
 - REPEATED EXPOSURE : Classification not possible.
 ASPIRATION HAZARD : Not applicable.

ENVIRONMENTAL HAZARDS**HAZARDOUS TO THE AQUATIC ENVIRONMENT**

- ACUTE HAZARD : Classification not possible.
 - LONG-TERM HAZARD : Classification not possible.

HAZARDOUS TO THE OZONE LAYER : Classification not possible.

GHS LABEL ELEMENTS : None.
 OTHER HAZARDS : No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

<u>INGREDIENT(S)</u>	<u>CAS No.</u>	<u>Concentration Range(wt%)</u>
Ceramic materials and wares, chemicals (Ferrite)	66402-68-4	>90
Polyester resin	Trade secret	<10
Organic Pigment	Trade secret	<1
Amorphous Silica	7631-86-9	<1

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

Eye Contact : Immediately flush eyes with plenty of water for at least 15 minutes.
 If irritation persists, call a physician.
 Skin Contact : Wash with soap and water. Wash clothing before reuse.
 If irritation occurs or is persistent, seek medical attention.
 Ingestion : Dilute stomach contents with several glasses of water.
 Inhalation : Remove from exposure area to fresh air immediately.
 Contact a physician if there is any difficulty in breathing or other signs of distress.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Foam, halon, carbon dioxide, dry chemical & water fog.
 NOT SUITABLE EXTINGUISHING MEDIA : Do not use a solid water streams.
 SPECIAL HAZARDS : Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
 ADVICE FOR FIREFIGHTERS : No information available.
 PROTECTION OF FIREFIGHTERS : Use appropriate protective equipment, goggles, dust mask, and another protections depending on the situation.

6. ACCIDENTAL RELEASE MEASURES

SPIILLS, LEAKS : Vacuum-clean spilled developer and carefully transfer into sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up. Residue can be removed with soap and cold water.

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**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 package (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 MATERIALS : No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Limits**

OSHA PELs (TWA)
as the product : 15mg/m³ (Total dust)
5mg/m³ (Respirable fraction)
Ingredients : 10mg/m³ (Amorphous Silica)

ACGIH TLVs (TWA)

as the product : 10mg/m3 (Total dust)
3mg/m3 (Respirable fraction)

Ingredients : Not established.

EU OEL

as the product : Not established.

Ingredients : Not established.

DFG-MAK (TWA)

as the product : 4mg/m3 (Inhalable fraction)
1.5mg/m3 (Respirable fraction)

Ingredients : Not established

Engineering Controls : Maintain adequate ventilation.

Eye Protection : Not required under intended use.

Skin Protection : Not required under intended use.

Respiratory Protection : Not required under intended use.

9. PHYSICAL AND CHEMICAL PROPERTIES**PHYSICAL STATES**

APPEARANCE : Fine solid Powder.

COLOUR : Magenta.

ODOUR : Odourless.

pH VALUE : Not applicable.

SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No information available.

MELTING POINT : No information available.

FLASH POINT : Not applicable

FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE LIMITS : UPPER LIMIT : No information available.

LOWER LIMIT : No information available.

VAPOUR PRESSURE : Not applicable.

VAPOUR DENSITY : Not applicable.

SPECIFIC GRAVITY (DENSITY) : 1.4 - 2.0

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Partially 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.

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

Acute oral toxicity : LD50 is greater than 2,000mg/kg.

(This was the highest attainable mass.)

Acute inhalation : LC50 (4H) is in excess of 5.04mg/l.

(Toner in Developer) (This was the highest attainable concentration.)

Eye irritation : Minimum irritant. Not classified by GHS (Estimate from ingredients.).

Skin irritation : No irritant. Not classified by GHS (Estimate from ingredients.).

Skin sensitization : Non-sensitizer. (Estimate from ingredients)

Mutagenicity : Negative in the Ames test.(Estimate from ingredients.)

Carcinogenicity : None known.

Chronic Effects : None known.

Other information : No information available.

12. ECOLOGICAL INFORMATION

Aquatic environment

LC50 : No information available. (fish)

EC50 : No information available. (daphnia)

Eb50 : No information available. (Algal)

PERSISTENCE / DEGRADABILITY : No information available.

MOBILITY IN SOIL : No information available.

BIOACCUMULATIVE POTENTIAL : No information available.

OTHER ADVERSE EFFECTS : No information available.

13. DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulation.

Empty plastic container may be recycled.

14. TRANSPORTATION INFORMATION

Special Precautions : None

International Transport Information

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 (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 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 : 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.

National requirement : No specific regulations or restrictions.

Regulation (EC) No. 1907/2006 (REACH)

: 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)

15. REGULATORY INFORMATION

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 Health and Safety Commission (Australia).

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Cyan developer (cartridge) for
ES9455MFP / ES9465MFP / ES9475MFP
(Developer powder name : D-FC30-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

Australia : Oki Data (Australia) Pty Ltd.
Level 1, 67 Epping Road • Macquarie Park NSW 2113 Australia
Tel: 1800 800 140
e-mail: aus-MSDSQuestions@oki.com

Singapore : Oki Data (Singapore) Pte Ltd
438A Alexandra Road #02-11/12, Lift Lobby 3, Alexandra Technopark,
Singapore 119967,
Tel: +65 6221 3722
e-mail: odsp-sales@oki.com

2. HAZARDS IDENTIFICATION**GHS CLASSIFICATION****PHYSICAL AND CHEMICAL HAZARDS**

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.

OXIDIZING LIQUIDS : Not classified.

OXIDIZING SOLIDS : Not classified.

ORGANIC 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) : Not applicable.

ACUTE TOXICITY (Inhalation-Vapor) : Classification not possible.

ACUTE TOXICITY (Inhalation-Dust) : Not classified.

SKIN CORROSION / IRRITATION : Not classified.

SERIOUS EYE DAMAGE / EYE IRRITATION : Classification not possible.

RESPIRATORY SENSITIZATION : Classification not possible.

SKIN SENSITIZATION : Not classified.

GERM CELL MUTAGENICITY : Not classified.
 CARCINOGENICITY : Classification not possible.
 REPRODUCTIVE TOXICITY : Classification not possible.
 - SINGLE EXPOSURE : Classification not possible.
 - REPEATED EXPOSURE : Classification not possible.
 ASPIRATION HAZARD : Not applicable.

ENVIRONMENTAL HAZARDS**HAZARDOUS TO THE AQUATIC ENVIRONMENT**

- ACUTE HAZARD : Classification not possible.
 - LONG-TERM HAZARD : Classification not possible.
 HAZARDOUS TO THE OZONE LAYER : Classification not possible.

GHS LABEL ELEMENTS : None.
 OTHER HAZARDS : No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

<u>INGREDIENT(S)</u>	<u>CAS No.</u>	<u>Concentration Range(wt%)</u>
Ceramic materials and wares, chemicals (Ferrite)	66402-68-4	>90
Polyester resin	Trade secret	<10
Organic Pigment	Trade secret	<1
Amorphous Silica	7631-86-9	<1

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

Eye Contact : Immediately flush eyes with plenty of water for at least 15 minutes.
 If irritation persists, call a physician.
 Skin Contact : Wash with soap and water. Wash clothing before reuse.
 If irritation occurs or is persistent, seek medical attention.
 Ingestion : Dilute stomach contents with several glasses of water.
 Inhalation : Remove from exposure area to fresh air immediately.
 Contact a physician if there is any difficulty in breathing or other signs of distress.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Foam, halon, carbon dioxide, dry chemical & water fog.
 NOT SUITABLE EXTINGUISHING MEDIA : Do not use a solid water streams.
 SPECIAL HAZARDS : Combustible powder. Dust of this product at sufficient concentrations can form explosive mixtures with air.
 ADVICE FOR FIREFIGHTERS : No information available.
 PROTECTION OF FIREFIGHTERS : Use appropriate protective equipment, goggles, dust mask, and another protections depending on the situation.

6. ACCIDENTAL RELEASE MEASURES

SPIILLS, LEAKS : Vacuum-clean spilled developer and carefully transfer into sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up. Residue can be removed with soap and cold water.

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**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 package (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 MATERIALS : No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Exposure Limits**

OSHA PELs (TWA)
as the product : 15mg/m³ (Total dust)
5mg/m³ (Respirable fraction)
Ingredients : 10mg/m³ (Amorphous Silica)

ACGIH TLVs (TWA)

as the product : 10mg/m³ (Total dust)
3mg/m³ (Respirable fraction)

Ingredients : Not established.

EU OEL

as the product : Not established.

Ingredients : Not established.

DFG-MAK (TWA)

as the product : 4mg/m³ (Inhalable fraction)
1.5mg/m³ (Respirable fraction)

Ingredients : Not established

Engineering Controls : Maintain adequate ventilation.

Eye Protection : Not required under intended use.

Skin Protection : Not required under intended use.

Respiratory Protection : Not required under intended use.

9. PHYSICAL AND CHEMICAL PROPERTIES**PHYSICAL STATES**

APPEARANCE : Fine solid Powder.

COLOUR : Cyan.

ODOUR : Odourless.

pH VALUE : Not applicable.

SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No information available.

MELTING POINT : No information available.

FLASH POINT : Not applicable

FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE LIMITS : UPPER LIMIT : No information available.

LOWER LIMIT : No information available.

VAPOUR PRESSURE : Not applicable.

VAPOUR DENSITY : Not applicable.

SPECIFIC GRAVITY (DENSITY) : 1.4 - 2.0

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Partially 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.

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

Acute oral toxicity	: LD50 is greater than 2,000mg/kg. (This was the highest attainable mass.)
Acute inhalation (Toner in Developer)	: LC50 (4H) is in excess of 5.03mg/l. (This was the highest attainable concentration.)
Eye irritation	: Mild irritant. Not classified by GHS (Estimate from ingredients.).
Skin irritation	: Mild irritant. Not classified by GHS (Estimate from ingredients.).
Skin sensitization	: Non-sensitizer. (Estimate from ingredients)
Mutagenicity	: Negative in the Ames test.(Estimate from ingredients.)
Carcinogenicity	: None known.
Chronic Effects	: None known.
Other information	: No information available.

12. ECOLOGICAL INFORMATION

Aquatic environment	
LC50	: No information available. (fish)
EC50	: No information available. (daphnia)
Eb50	: No information available. (Algal)
PERSISTENCE / DEGRADABILITY	: No information available.
MOBILITY IN SOIL	: No information available.
BIOACCUMULATIVE POTENTIAL	: No information available.
OTHER ADVERSE EFFECTS	: No information available.

13. DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulation.
Empty plastic container may be recycled.

14. TRANSPORTATION INFORMATION

Special Precautions	: None
International Transport Information	
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 (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 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 : 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.

National requirement : No specific regulations or restrictions.

Regulation (EC) No. 1907/2006 (REACH)

: 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)

15. REGULATORY INFORMATION

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 Health and Safety Commission (Australia).