

## Material Safety Data Sheet

### 1. Identification of the product and of the company/undertaking

#### 1.1. Identification of the product:

CR-MW-BK

#### 1.2. Company/undertaking identification

Manufacture's name: Roland DG Corporation  
Address: 1-6-4 Shinmiyakoda Hamamatsu-shi  
Shizuoka 431-2103  
JAPAN  
Phone: + 81-53-484-1224  
Fax: + 81-53-484-1221

### 2. Hazardous Components/Identity Information

#### 2.1. Hazardous Components

Hazardous Components:	Carbon Black	Paraffin Wax (fume)
CSA No. :	1333-86-4	8002-74-2
ACGIH TLV:	3.5mg/m <sup>3</sup>	2.0mg/m <sup>3</sup>
OSHA PEL:	3.5mg/m <sup>3</sup>	N/A
EEC:	N/A	N/A
Other Limit:	N/A	N/A
%:	8	11

#### 2.2. Predominant Components

Coloring Material:	Not Applicable
Wax:	Not Applicable
Resin:	Not Applicable
Additive:	Not Applicable
Polyethyleneterephalate film:	Not Applicable

#### 2.3 Impurity

None

### 3. Hazardous Information

Appearance and Odor:	Polyethyleneterephthalate film coated on one side there of with black ink.
Incompatibility(Material to Avoid):	None
Hazardous Decomposition or Byproducts:	None
Fire and Explosion Hazards:	None
Health Hazards:	Refrain from taking it into the body through mouths.
Information on Ecological Effect:	No data available
UN-category:	Not applicable
UN-number:	Not applicable

### 4. Emergency and First Aid Procedures

Health Hazards(Acute and Chronic):	No data available
Signs and Symptoms of Exposure:	No data available
Medical Conditions:	No data available
Generally Aggravated by Exposure	
Emergency and First Aid Procedures	
SKIN:	Wash away ink on skin.
EYE:	Wash with water and consult a doctor promptly.
INHALATION:	Not applicable
OTHERS:	No data available

### 5. Emergency Action in case of Fire

Extinguish Media:	Water mist, Foam, Dry powder, CO2 gas, others
Special Fire Fighting Procedures:	N/A
Unusual Fire and Explosion Hazards:	None

### 6. Precautions for Safe Handling and Use

- 6.1 Steps to be Taken in Case Material is Released or Spilled  
If inadvertently released, rewind ribbon.
- 6.2 Precautions to be Taken in Handling and Storing  
Should be stored in dark and cool place.
- 6.3 Other Precautions  
None

### 7. Control Measures

Respiratory Protection(Specify Type):	None
Ventilation	
Local Exhaust:	N/A
Mechanical (General):	N/A
Special:	N/A
Other:	N/A
Eye Protection:	N/A
Hand Protection:	Desirable in some cases.
Other Protective Clothing or Equipment:	N/A
Work/Hygienic Practices:	None

**8. Physical/Chemical characteristics**

Boiling Point:	N/A
Melting Point:	N/A
pH Value:	N/A
Specific Gravity:	N/A
Viscosity:	N/A
Vapor Pressure:	N/A
Solubility in Water:	Negligible

**9. Fire and Explosion Hazard Data**

Flash Point:	>150°C
Ignition Temperature:	N/A
Flammable Limits:	LEL:N/A, UEL:N/A

**10. Reactivity Data**

Stability:	Stable
Hazardous Polymerization:	Will not Occur

**11. Toxicology Information**

Ames Test:	No data available
Carbon Black 1333-86-4:	ARC animal carcinogen

**12. Transport Information**

No Special

**13. Waste Disposal Information**

Disposal in accordance with local, state and federal regulations.

**14. Others**

# Material Safety Data Sheet

## 1. Identification of the product and of the company/undertaking

### 1.1. Identification of the product:

CR-MW-YE

### 1.2. Company/undertaking identification

Manufacture's name: Roland DG Corporation  
Address: 1-6-4 Shinmiyakoda Hamamatsu-shi  
Shizuoka 431-2103  
JAPAN  
Phone: + 81-53-484-1224  
Fax: + 81-53-484-1221

## 2. Hazardous Components/Identity Information

### 2.1. Hazardous Components

Hazardous Components: Paraffin Wax (fume)  
CSA No. : 8002-74-2  
ACGIH TLV: 2.0mg/m<sup>3</sup>  
OSHA PEL: N/A  
EEC: N/A  
Other Limit: N/A  
%: 5

### 2.2. Predominant Components

Coloring Material: Not Applicable  
Wax: Not Applicable  
Resin: Not Applicable  
Additive: Not Applicable  
Polyethyleneterephalate film: Not Applicable

### 2.3 Impurity

None

### 3. Hazardous Information

Appearance and Odor:	Polyethyleneterephthalate film coated on one side there of with Yellow ink.
Incompatibility (Material to Avoid):	None
Hazardous Decomposition or Byproducts:	None
Fire and Explosion Hazards:	None
Health Hazards:	Health hazard risks would be extremely small.
Information on Ecological Effect:	No data available
UN-category:	Not applicable
UN-number:	Not applicable

### 4. Emergency and First Aid Procedures

Health Hazards (Acute and Chronic):	No data available
Signs and Symptoms of Exposure:	No data available
Medical Conditions:	No data available
Generally Aggravated by Exposure	
Emergency and First Aid Procedures	
SKIN:	Wash away ink on skin.
EYE:	Wash with water and consult a doctor promptly.
INHALATION:	Not applicable
OTHERS:	No data available

### 5. Emergency Action in case of Fire

Extinguish Media:	Water mist, Foam, Dry powder, CO2 gas, others
Special Fire Fighting Procedures:	N/A
Unusual Fire and Explosion Hazards:	None

### 6. Precautions for Safe Handling and Use

- 6.1 Steps to be Taken in Case Material is Released or Spilled  
If inadvertently released, rewind ribbon.
- 6.2 Precautions to be Taken in Handling and Storing  
Should be stored in dark and cool place.
- 6.3 Other Precautions  
None

### 7. Control Measures

Respiratory Protection (Specify Type):	None
Ventilation	
Local Exhaust:	N/A
Mechanical (General):	N/A
Special:	N/A
Other:	N/A
Eye Protection:	N/A
Hand Protection:	Desirable in some cases.
Other Protective Clothing or Equipment:	N/A
Work/Hygienic Practices:	None

**8. Physical/Chemical characteristics**

Boiling Point:	N/A
Melting Point:	N/A
pH Value:	N/A
Specific Gravity:	N/A
Viscosity:	N/A
Vapor Pressure:	N/A
Solubility in Water:	Negligible

**9. Fire and Explosion Hazard Data**

Flash Point:	>150°C
Ignition Temperature:	N/A
Flammable Limits:	LEL:N/A, UEL:N/A

**10. Reactivity Data**

Stability:	Stable
Hazardous Polymerization:	Will not Occur

**11. Toxicology Information**

Ames Test : Negative

**12. Transport Information**

No Special

**13. Waste Disposal Information**

Waste Disposal Method : Disposal in accordance with local, state and federal regulations.

**14. Others**

## Material Safety Data Sheet

### 1. Identification of the product and of the company/undertaking

#### 1.1. Identification of the product:

CR-MW-MG

#### 1.2. Company/undertaking identification

Manufacture's name: Roland DG Corporation  
Address: 1-6-4 Shinmiyakoda Hamamatsu-shi  
Shizuoka 431-2103  
JAPAN  
Phone: + 81-53-484-1224  
Fax: + 81-53-484-1221

### 2. Hazardous Components/Identity Information

#### 2.1. Hazardous Components

Hazardous Components: Paraffin Wax (fume)  
CSA No. : 8002-74-2  
ACGIH TLV: 2.0mg/m3  
OSHA PEL: N/A  
EEC: N/A  
Other Limit: N/A  
%: 7

#### 2.2. Predominant Components

Coloring Material: Not Applicable  
Wax: Not Applicable  
Resin: Not Applicable  
Additive: Not Applicable  
Polyethyleneterephalate film: Not Applicable

#### 2.3 Impurity

None

### 3. Hazardous Information

Appearance and Odor:	Polyethyleneterephthalate film coated on one side there of with Magenta ink.
Incompatibility (Material to Avoid):	None
Hazardous Decomposition or Byproducts:	None
Fire and Explosion Hazards:	None
Health Hazards:	Health hazard risks would be extremely small.
Information on Ecological Effect:	No data available
UN-category:	Not applicable
UN-number:	Not applicable

### 4. Emergency and First Aid Procedures

Health Hazards (Acute and Chronic):	No data available
Signs and Symptoms of Exposure:	No data available
Medical Conditions:	No data available
Generally Aggravated by Exposure	
Emergency and First Aid Procedures	
SKIN:	Wash away ink on skin.
EYE:	Wash with water and consult a doctor promptly.
INHALATION:	Not applicable
OTHERS:	No data available

### 5. Emergency Action in case of Fire

Extinguish Media:	Water mist, Foam, Dry powder, CO2 gas, others
Special Fire Fighting Procedures:	N/A
Unusual Fire and Explosion Hazards:	None

### 6. Precautions for Safe Handling and Use

- 6.1 Steps to be Taken in Case Material is Released or Spilled  
If inadvertently released, rewind ribbon.
- 6.2 Precautions to be Taken in Handling and Storing  
Should be stored in dark and cool place.
- 6.3 Other Precautions  
None

### 7. Control Measures

Respiratory Protection (Specify Type):	None
Ventilation	
Local Exhaust:	N/A
Mechanical (General):	N/A
Special:	N/A
Other:	N/A
Eye Protection:	N/A
Hand Protection:	Desirable in some cases.
Other Protective Clothing or Equipment:	N/A
Work/Hygienic Practices:	None



**8. Physical/Chemical characteristics**

Boiling Point:	N/A
Melting Point:	N/A
pH Value:	N/A
Specific Gravity:	N/A
Viscosity:	N/A
Vapor Pressure:	N/A
Solubility in Water:	Negligible

**9. Fire and Explosion Hazard Data**

Flash Point:	>150°C
Ignition Temperature:	N/A
Flammable Limits:	LEL:N/A, UEL:N/A

**10. Reactivity Data**

Stability:	Stable
Hazardous Polymerization:	Will not Occur

**11. Toxicology Information**

Ames Test : Negative

**12. Transport Information**

No Special

**13. Waste Disposal Information**

Waste Disposal Method : Disposal in accordance with local, state and federal regulations.

**14. Others**

# Material Safety Data Sheet

## 1. Identification of the product and of the company/undertaking

### 1.1. Identification of the product:

CR-MW-CY

### 1.2. Company/undertaking identification

Manufacture's name: Roland DG Corporation  
Address: 1-6-4 Shinmiyakoda Hamamatsu-shi  
Shizuoka 431-2103  
JAPAN  
Phone: + 81-53-484-1224  
Fax: + 81-53-484-1221

## 2. Hazardous Components/Identity Information

### 2.1. Hazardous Components

Hazardous Components: Paraffin Wax (fume)  
CSA No. : 8002-74-2  
ACGIH TLV: 2.0mg/m3  
OSHA PEL: N/A  
EEC: N/A  
Other Limit: N/A  
%: 5

### 2.2. Predominant Components

Coloring Material: Not Applicable  
Wax: Not Applicable  
Resin: Not Applicable  
Additive: Not Applicable  
Polyethyleneterephalate film: Not Applicable

### 2.3 Impurity

None

### 3. Hazardous Information

Appearance and Odor:	Polyethyleneterephthalate film coated on one side there of with cyan ink.
Incompatibility (Material to Avoid):	None
Hazardous Decomposition or Byproducts:	None
Fire and Explosion Hazards:	None
Health Hazards:	Health hazard risks would be extremely small.
Information on Ecological Effect:	No data available
UN-category:	Not applicable
UN-number:	Not applicable

### 4. Emergency and First Aid Procedures

Health Hazards (Acute and Chronic):	No data available
Signs and Symptoms of Exposure:	No data available
Medical Conditions:	No data available
Generally Aggravated by Exposure	
Emergency and First Aid Procedures	
SKIN:	Wash away ink on skin.
EYE:	Wash with water and consult a doctor promptly.
INHALATION:	Not applicable
OTHERS:	No data available

### 5. Emergency Action in case of Fire

Extinguish Media:	Water mist, Foam, Dry powder, CO2 gas, others
Special Fire Fighting Procedures:	N/A
Unusual Fire and Explosion Hazards:	None

### 6. Precautions for Safe Handling and Use

- 6.1 Steps to be Taken in Case Material is Released or Spilled  
If inadvertently released, rewind ribbon.
- 6.2 Precautions to be Taken in Handling and Storing  
Should be stored in dark and cool place.
- 6.3 Other Precautions  
None

### 7. Control Measures

Respiratory Protection (Specify Type):	None
Ventilation	
Local Exhaust:	N/A
Mechanical (General):	N/A
Special:	N/A
Other:	N/A
Eye Protection:	N/A
Hand Protection:	Desirable in some cases.
Other Protective Clothing or Equipment:	N/A
Work/Hygienic Practices:	None

**8. Physical/Chemical characteristics**

Boiling Point:	N/A
Melting Point:	N/A
pH Value:	N/A
Specific Gravity:	N/A
Viscosity:	N/A
Vapor Pressure:	N/A
Solubility in Water:	Negligible

**9. Fire and Explosion Hazard Data**

Flash Point:	>150°C
Ignition Temperature:	N/A
Flammable Limits:	LEL:N/A, UEL:N/A

**10. Reactivity Data**

Stability:	Stable
Hazardous Polymerization:	Will not Occur

**11. Toxicology Information**

Ames Test : Negative

**12. Transport Information**

No Special

**13. Waste Disposal Information**

Waste Disposal Method : Disposal in accordance with local, state and federal regulations.

**14. Others**