

Material Safety Data Sheet

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

1.1. Identification of the product:

CR-MR-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
CSA No. : 1333-86-4
ACGIH TLV: 3.5mg/m³
OSHA PEL: 3.5mg/m³
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
Polyethyleneterephthalate 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
Sign and Symptoms of Exposure:	No data available
Medical Conditions:	Generally Aggravated by Exposure
	No data available

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:	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-MR-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: None

2.2. Predominant Components

Coloring Material: Not Applicable
Wax: Not Applicable
Resin: Not Applicable
Additive: Not Applicable
Polyethyleneterephthalate 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
Sign and Symptoms of Exposure:	No data available
Medical Conditions:	Generally Aggravated by Exposure No data available
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:	N/A

10. Reactivity Data

Stability:	Stable
Hazardous Polymerization:	Will not Occur

11. Toxicology Information

No data available

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-MR-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: None

2.2. Predominant Components

Coloring Material: Not Applicable
Wax: Not Applicable
Resin: Not Applicable
Additive: Not Applicable
Polyethyleneterephthalate 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
Sign and Symptoms of Exposure:	No data available
Medical Conditions:	Generally Aggravated by Exposure No data available
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:	N/A

10. Reactivity Data

Stability:	Stable
Hazardous Polymerization:	Will not Occur

11. Toxicology Information

No data available

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-MR-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: None

2.2. Predominant Components

Coloring Material: Not Applicable
Wax: Not Applicable
Resin: Not Applicable
Additive: Not Applicable
Polyethyleneterephthalate 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
Sign and Symptoms of Exposure:	No data available
Medical Conditions:	Generally Aggravated by Exposure
	No data available

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:	N/A

10. Reactivity Data

Stability:	Stable
Hazardous Polymerization:	Will not Occur

11. Toxicology Information

No data available

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-MR-RD

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: None

2.2. Predominant Components

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

2.3 Impurity

None

3. Hazardous Information

Appearance and Odor: Polyethyleneterephthalate film coated on one side
there of with red 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
Sign and Symptoms of Exposure:	No data available
Medical Conditions:	Generally Aggravated by Exposure
	No data available

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:	N/A

10. Reactivity Data

Stability:	Stable
Hazardous Polymerization:	Will not Occur

11. Toxicology Information

No data available

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-MR-BL

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: None

2.2. Predominant Components

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

2.3 Impurity

None

3. Hazardous Information

Appearance and Odor: Polyethyleneterephthalate film coated on one side
there of with blue 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
Sign and Symptoms of Exposure:	No data available
Medical Conditions:	Generally Aggravated by Exposure
	No data available

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:	N/A

10. Reactivity Data

Stability:	Stable
Hazardous Polymerization:	Will not Occur

11. Toxicology Information

No data available

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-MR-GL

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:	Calcium carbonate	Aluminum
CSA No. :	1317-65-3	7429-90-5
ACGIH TLV:	10.0mg/m ³	10.0mg/m ³
OSHA PEL:	15mg/m ³	N/A
EEC:	N/A	N/A
Other Limit:	N/A	N/A
%:	3	1

2.2. Predominant Components

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

2.3 Impurity

None

3. Hazardous Information

Appearance and Odor:	Polyethyleneterephthalate film coated on one side there of with gold 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
Sign and Symptoms of Exposure:	No data available
Medical Conditions:	Generally Aggravated by Exposure
	No data available

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:	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-MR-SL

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:	Calcium carbonate	Aluminum
CSA No. :	1317-65-3	7429-90-5
ACGIH TLV:	10.0mg/m ³	10.0mg/m ³
OSHA PEL:	15mg/m ³	N/A
EEC:	N/A	N/A
Other Limit:	N/A	N/A
%:	3	1

2.2. Predominant Components

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

2.3 Impurity

None

3. Hazardous Information

Appearance and Odor:	Polyethyleneterephthalate film coated on one side there of with silver 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
Sign and Symptoms of Exposure:	No data available
Medical Conditions:	Generally Aggravated by Exposure
	No data available

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:	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-MR-WH

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:	Titanium dioxide	Silica SiO ₂
CSA No. :	13463-67-6	7631-86-9
ACGIH TLV:	10.0mg/m ³	20.0mppcf
OSHA PEL:	15mg/m ³	20.0mppcf
EEC:	N/A	N/A
Other Limit:	N/A	N/A
%:	39	2

2.2. Predominant Components

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

2.3 Impurity

None

3. Hazardous Information

Appearance and Odor:	Polyethyleneterephthalate film coated on one side there of with white 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
Sign and Symptoms of Exposure:	No data available
Medical Conditions:	Generally Aggravated by Exposure
	No data available

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:	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