



# Moorim **INK-JET INK**

- **MSDS** -

# Material Safety Data Sheet

IDENTITY (As Used on Label and List)  Black Pigmented Ink for Lexmark 10N0016 cartridge	
<b>Section ?</b>	
Manufacturer s Name : Moorim Chemical Technology co., Ltd.	Emergency Telephone No. :
Address(Number,Street,City,State,Zip Code)	Telephone No.for information :
<b>Section?</b> Hazardous Ingredients/ Identity Information	
Hazardous Components (Specific Chemical Identity) : Common Name (s)	OSHA PEL ACGIH TLV OTHER LIMITS %(Optional) Recommended
Not Hazardous	
Specific Chemical Identity : H2O 60-73%, Carbon black 5%, 2-pyrrolidone 5-10%, PEG 5-10%	
Hazardous Mixtures of Identity of other Liquids, Solids, or Gases : Not applicable	
<b>Section?</b> - Physical / Chemical Characteristics	
Boiling Point : 110 C	Specific Gravity 1.05
Vapor Pressure (mm Hg) : 17.5 mmHg	Melting Point : Not applicable
Vapor Density (NR=1) : Heavier than air	Evaporation rate : Very Slight ( Butyl Acetate = 1 )
Solubility in Water : Originally Solution	
Appearance and Odor : Black Solution , mild odor	
<b>Section?</b> - Fire and Explosion Hazard Data	
Flash Point (Method Used) :Not applicable	Flammable Limits LED UEL
Extinguishing Media : Not fire	
Special Fire Fighting Procedure : Not fire	
Unusual Fire and Explosion Hazards : None	

## Section ? - Reactivity Data

Stability      Unstable      Conditions to avoid : Temperature Extremes

stable      0

Incompatibility (Materials to avoid) : Oxidizing substances, Strong acids or bases

Hazardous Decomposition or Byproducts : oxides of carbon and nitrogen

Hazardous      May Occur

Polymerization      Will Not Occur : 0

## Section ?      Health Hazard Data

Route(s) of Entry:      Inhalation : No      Skin : Yes      Skin ? Yes      Ingestion ? Yes

Health Hazards (Acute and Chronic)      Health Hazard are minimal,being neither irritating, corrosive nor toxic. There is no health hazard in normal use condition.

Carcinogenicity :      NTP ?      IARC Monographs ?      OSHA Regulated ?  
:Not applicable      :Not applicable      :Not applicable

Sign and Symptoms of Exposure : none

Medical Conditions      Generally Aggravated by exposure : None

Emergency and First Aid procedures Contact with skin : Normal Washing with Water,  
In eyes : Normal Washing with Water      Inhalation : remove form exposure

## Section ? - Precautions for Safe handing and Use

Steps to be Taken in Case material is Released or Spilled :

Sweep up and place in a waste disposal container

Waste Disposal Method :      Water Waste treat

Precautions to be Taken in Handing and Storing : None

Other Precautions : None

## Section ? - Control Measures

Respiratory Protection(Specify Type) : None

Ventilation      Local Exhaust : None      Special : None

Mechanical (General) : None      Other : None

Protective Gloves : Preferable      Eye Protection : None

Other Protective Clothing or Equipment : None

Work/ Hygienic Practices : Ordinary measures of hygiene should be adequated

# Material Safety Data Sheet

IDENTITY (As Used on Label and List)	
Color Ink for HP C6578 Ink jet Cartridge	
<b>Section ?</b>	
Manufacturer s Name :	Emergency Telephone No. :
Moorim Chemical Technology co., Ltd.	
Address(Number,Street,City,State,Zip Code)	Telephone No.for information :
<b>Section?</b> Hazardous Ingredients/ Identity Information	
Hazardous Components	OSHA PEL ACGIH TLV OTHER LIMITS %(Optional)
(Specific Chemical Identity) : Common Name (s)	Recommended
Not Hazardous	
Specific Chemical Identity	: H2O 60-70%, Dye 2-5%, 2-Pyrrolidinone 7%, Butyl Carbitol 8%
Hazardous Mixtures of Identity of other Liquids, Solids, or Gases : Not applicable	
<b>Section?</b> - Physical / Chemical Characteristics	
Boiling Point	: 120 C
	Specific Gravity 1.06
Vapor Pressure (mm Hg)	: 17.5 mmHg
	Melting Point : Not applicable
Vapor Density (NR=1)	:Not applicable
	Evaporation rate : Very Slight ( Butyl Acetate = 1 )
Solubility in Water : Originally Solution	
Appearance and Odor : Color Solution	
<b>Section?</b> - Fire and Explosion Hazard Data	
Flash Point (Method Used)	:Not applicable
	Flammable Limits LED UEL
Extinguishing Media : Not fire	
Special Fire Fighting Procedure : Not fire	
Unusual Fire and Explosion Hazards : None	

## Section ? - Reactivity Data

Stability      Unstable      Conditions to avoid :

stable      0

Incompatibility (Materials to avoid) : No specific      incompatibility

Hazardous Decomposition or Byproducts : None

Hazardous      May Occur      Conditions to avoid :

Polymerization      Will Not Occur : 0

## Section ?      Health Hazard Data

Route(s) of Entry:      Inhalation : No      Skin : Yes      Skin ? Yes      Ingestion ? Yes

Health Hazards (Acute and Chronic)      Health Hazard are minimal, being neither irritating, corrosive nor toxic. There is no health hazard in normal use condition.

Carcinogenicity :      NTP ?      IARC Monographs ?      OSHA Regulated ?  
:Not applicable      :Not applicable      :Not applicable

Sign and Symptoms of Exposure : none

Medical Conditions      Generally Aggravated by exposure : None

Emergency and First Aid procedures Contact with skin : Normal Washing with Water,  
In eyes : Normal Washing with Water      Inhalation : remove form exposure

## Section ? - Precautions for Safe handing and Use

Steps to be Taken in Case material is Released or Spilled :

Sweep up and place in a waste disposal container

Waste Disposal Method :      Water Waste treat

Precautions to be Taken in Handing and Storing : None

Other Precautions : None

## Section ? - Control Measures

Respiratory Protection(Specify Type) : None

Ventilation      Local Exhaust : None      Special : None

Mechanical (General) : None      Other : None

Protective Gloves : Preferable      Eye Protection : None

Other Protective Clothing or Equipment : None

Work/ Hygienic Practices : Ordinary measures of hygiene should be adequated

# Material Safety Data Sheet

IDENTITY (As Used on Label and List)	
Color Ink for HP 51649 Ink jet cartridge	

## Section ?

Manufacturer s Name :	Emergency Telephone No. :
Moorim Chemical Technology co., Ltd.	
Address(Number,Street,City,State,Zip Code)	Telephone No.for information :

## Section? Hazardous Ingredients/ Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV	OTHER LIMITS	%(Optional)
(Specific Chemical Identity) : Common Name (s)				Recommended
Not Hazardous				
Specific Chemical Identity	: H2O 60-70%, Dye 2-5%, 2-Pyrrolidinone 7%, Butyl Carbitol 8%			
Hazardous Mixtures of Identity of other Liquids, Solids, or Gases : Not applicable				

## Section? - Physical / Chemical Characteristics

Boiling Point	: 140 C	Specific Gravity	1.06
Vapor Pressure (mm Hg)	: 17.7 mmHg	Melting Point	: Not applicable
Vapor Density (NR=1)	:Not applicable	Evaporation rate	: Very Slight ( Butyl Acetate = 1 )

Solubility in Water : Originally Solution
Appearance and Odor : Color Solution

## Section? - Fire and Explosion Hazard Data

Flash Point (Method Used)	:Not applicable	Flammable Limits	LED	UEL
Extinguishing Media	: Not fire			
Special Fire Fighting Procedure	: Not fire			
Unusual Fire and Explosion Hazards	: None			

## Section ? - Reactivity Data

Stability      Unstable      Conditions to avoid :

stable      0

Incompatibility (Materials to avoid) : No specific      incompatibility

Hazardous Decomposition or Byproducts : None

Hazardous      May Occur      Conditions to avoid :

Polymerization      Will Not Occur : 0

## Section ?      Health Hazard Data

Route(s) of Entry:      Inhalation : No      Skin : Yes      Skin ? Yes      Ingestion ? Yes

Health Hazards (Acute and Chronic)      Health Hazard are minimal, being neither irritating, corrosive nor toxic. There is no health hazard in normal use condition.

Carcinogenicity :      NTP ?      IARC Monographs ?      OSHA Regulated ?  
:Not applicable      :Not applicable      :Not applicable

Sign and Symptoms of Exposure : none

Medical Conditions      Generally Aggravated by exposure : None

Emergency and First Aid procedures Contact with skin : Normal Washing with Water,  
In eyes : Normal Washing with Water      Inhalation : remove form exposure

## Section ? - Precautions for Safe handling and Use

Steps to be Taken in Case material is Released or Spilled :

Sweep up and place in a waste disposal container

Waste Disposal Method :      Water Waste treat

Precautions to be Taken in Handling and Storing : None

Other Precautions : None

## Section ? - Control Measures

Respiratory Protection(Specify Type) : None

Ventilation      Local Exhaust : None      Special : None

Mechanical (General) : None      Other : None

Protective Gloves : Preferable      Eye Protection : None

Other Protective Clothing or Equipment : None

Work/ Hygienic Practices : Ordinary measures of hygiene should be adequated

# Material Safety Data Sheet

IDENTITY (As Used on Label and List)	
Color Ink for Lexmark 1980 Ink jet cartridge	
<b>Section ?</b>	
Manufacturer s Name : Moorim Chemical Technology co., Ltd.	Emergency Telephone No. :
Address(Number,Street,City,State,Zip Code)	Telephone No.for information :
<b>Section?</b> Hazardous Ingredients/ Identity Information	
Hazardous Components	OSHA PEL ACGIH TLV OTHER LIMITS %(Optional)
(Specific Chemical Identity) : Common Name (s)	Recommended
Not Hazardous	
Specific Chemical Identity : H2O 60-70%, Dye 2-5%, Glycerol 15%, Butyl Carbitol 3%	
Hazardous Mixtures of Identity of other Liquids, Solids, or Gases : Not applicable	
<b>Section?</b> - Physical / Chemical Characteristics	
Boiling Point : 130 C	Specific Gravity 1.05
Vapor Pressure (mm Hg) : 17.5 mmHg	Melting Point : Not applicable
Vapor Density (NR=1) :Not applicable	Evaporation rate : Very Slight ( Butyl Acetate = 1 )
Solubility in Water : Originally Solution	
Appearance and Odor : Color Solution	
<b>Section?</b> - Fire and Explosion Hazard Data	
Flash Point (Method Used) :Not applicable	Flammable Limits LED UEL
Extinguishing Media : Not fire	
Special Fire Fighting Procedure : Not fire	
Unusual Fire and Explosion Hazards : None	

## Section ? - Reactivity Data

Stability      Unstable      Conditions to avoid :

stable      0

Incompatibility (Materials to avoid) : No specific      incompatibility

Hazardous Decomposition or Byproducts : None

Hazardous      May Occur      Conditions to avoid :

Polymerization      Will Not Occur : 0

## Section ?      Health Hazard Data

Route(s) of Entry:      Inhalation : No      Skin : Yes      Skin ? Yes      Ingestion ? Yes

Health Hazards (Acute and Chronic)      Health Hazard are minimal, being neither irritating, corrosive nor toxic. There is no health hazard in normal use condition.

Carcinogenicity :      NTP ?      IARC Monographs ?      OSHA Regulated ?  
:Not applicable      :Not applicable      :Not applicable

Sign and Symptoms of Exposure : none

Medical Conditions      Generally Aggravated by exposure : None

Emergency and First Aid procedures Contact with skin : Normal Washing with Water,  
In eyes : Normal Washing with Water      Inhalation : remove form exposure

## Section ? - Precautions for Safe handing and Use

Steps to be Taken in Case material is Released or Spilled :

Sweep up and place in a waste disposal container

Waste Disposal Method :      Water Waste treat

Precautions to be Taken in Handing and Storing : None

Other Precautions : None

## Section ? - Control Measures

Respiratory Protection(Specify Type) : None

Ventilation      Local Exhaust : None      Special : None

Mechanical (General) : None      Other : None

Protective Gloves : Preferable      Eye Protection : None

Other Protective Clothing or Equipment : None

Work/ Hygienic Practices : Ordinary measures of hygiene should be adequated

# Material Safety Data Sheet

IDENTITY (As Used on Label and List)  Color Ink for Lexmark 10N0026 Ink jet cartridge	
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<b>Section ?</b>	
Manufacturer s Name : Moorim Chemical Technology co., Ltd.	Emergency Telephone No. :
Address(Number,Street,City,State,Zip Code)	Telephone No.for information :

<b>Section?</b> Hazardous Ingredients/ Identity Information	
Hazardous Components	OSHA PEL ACGIH TLV OTHER LIMITS %(Optional)
(Specific Chemical Identity) : Common Name (s)	Recommended
Not Hazardous	
Specific Chemical Identity	: H2O 60-70%, Dye 2-5%, Glycerol 13%, Butyl Carbitol 4%
Hazardous Mixtures of Identity of other Liquids, Solids, or Gases : Not applicable	

<b>Section?</b> - Physical / Chemical Characteristics	
Boiling Point : 128 C	Specific Gravity 1.05
Vapor Pressure (mm Hg) : 17.5 mmHg	Melting Point : Not applicable
Vapor Density (NR=1) :Not applicable	Evaporation rate : Very Slight ( Butyl Acetate = 1 )
Solubility in Water : Originally Solution	
Appearance and Odor : Color Solution	

<b>Section?</b> - Fire and Explosion Hazard Data	
Flash Point (Method Used) :Not applicable	Flammable Limits LED UEL
Extinguishing Media : Not fire	
Special Fire Fighting Procedure : Not fire	
Unusual Fire and Explosion Hazards : None	

## Section ? - Reactivity Data

Stability      Unstable      Conditions to avoid :

stable      0

Incompatibility (Materials to avoid) : No specific      incompatibility

Hazardous Decomposition or Byproducts : None

Hazardous      May Occur      Conditions to avoid :

Polymerization      Will Not Occur : 0

## Section ?      Health Hazard Data

Route(s) of Entry:      Inhalation : No      Skin : Yes      Skin ? Yes      Ingestion ? Yes

Health Hazards (Acute and Chronic)      Health Hazard are minimal, being neither irritating, corrosive nor toxic. There is no health hazard in normal use condition.

Carcinogenicity :      NTP ?      IARC Monographs ?      OSHA Regulated ?  
:Not applicable      :Not applicable      :Not applicable

Sign and Symptoms of Exposure : none

Medical Conditions      Generally Aggravated by exposure : None

Emergency and First Aid procedures Contact with skin : Normal Washing with Water,  
In eyes : Normal Washing with Water      Inhalation : remove form exposure

## Section ? - Precautions for Safe handling and Use

Steps to be Taken in Case material is Released or Spilled :

Sweep up and place in a waste disposal container

Waste Disposal Method :      Water Waste treat

Precautions to be Taken in Handling and Storing : None

Other Precautions : None

## Section ? - Control Measures

Respiratory Protection(Specify Type) : None

Ventilation      Local Exhaust : None      Special : None

Mechanical (General) : None      Other : None

Protective Gloves : Preferable      Eye Protection : None

Other Protective Clothing or Equipment : None

Work/ Hygienic Practices : Ordinary measures of hygiene should be adequated

# Material Safety Data Sheet

IDENTITY (As Used on Label and List)	
Photo Ink for Epson S020110 cartridge Ink jet printer	
<b>Section ?</b>	
Manufacturer s Name : Moorim Chemical Technology co., Ltd.	Emergency Telephone No. :
Address(Number,Street,City,State,Zip Code)	Telephone No.for information :
<b>Section?</b> Hazardous Ingredients/ Identity Information	
Hazardous Components	OSHA PEL ACGIH TLV OTHER LIMITS %(Optional)
(Specific Chemical Identity) : Common Name (s)	Recommended
Not Hazardous	
Specific Chemical Identity : H2O 60-70%, Water soluble dye 1-5%,Glycerol 8%, DEG 10-15%	
Hazardous Mixtures of Identity of other Liquids, Solids, or Gases : Not applicable	
<b>Section?</b> - Physical / Chemical Characteristics	
Boiling Point : 135 C	Specific Gravity 1.04
Vapor Pressure (mm Hg) : 17.5 mmHg	Melting Point : Not applicable
Vapor Density (NR=1) :Not applicable	Evaporation rate : Very Slight ( Butyl Acetate = 1 )
Solubility in Water : Originally Solution	
Appearance and Odor : Color Solution	
<b>Section?</b> - Fire and Explosion Hazard Data	
Flash Point (Method Used) :Not applicable	Flammable Limits LED UEL
Extinguishing Media : Not fire	
Special Fire Fighting Procedure : Not fire	
Unusual Fire and Explosion Hazards : None	

## Section ? - Reactivity Data

Stability      Unstable      Conditions to avoid :

stable      0

Incompatibility (Materials to avoid) : No specific      incompatibility

Hazardous Decomposition or Byproducts : None

Hazardous      May Occur      Conditions to avoid :

Polymerization      Will Not Occur : 0

## Section ?      Health Hazard Data

Route(s) of Entry:      Inhalation : No      Skin : Yes      Skin ? Yes      Ingestion ? Yes

Health Hazards (Acute and Chronic)      Health Hazard are minimal, being neither irritating, corrosive nor toxic. There is no health hazard in normal use condition.

Carcinogenicity :      NTP ?      IARC Monographs ?      OSHA Regulated ?  
:Not applicable      :Not applicable      :Not applicable

Sign and Symptoms of Exposure : none

Medical Conditions      Generally Aggravated by exposure : None

Emergency and First Aid procedures Contact with skin : Normal Washing with Water,  
In eyes : Normal Washing with Water      Inhalation : remove form exposure

## Section ? - Precautions for Safe handling and Use

Steps to be Taken in Case material is Released or Spilled :

Sweep up and place in a waste disposal container

Waste Disposal Method :      Water Waste treat

Precautions to be Taken in Handling and Storing : None

Other Precautions : None

## Section ? - Control Measures

Respiratory Protection(Specify Type) : None

Ventilation      Local Exhaust : None      Special : None

Mechanical (General) : None      Other : None

Protective Gloves : Preferable      Eye Protection : None

Other Protective Clothing or Equipment :      None

Work/ Hygienic Practices : Ordinary measures of hygiene should be adequated

# Material Safety Data Sheet

IDENTITY (As Used on Label and List)	
Nozzle Cleaning Solution for Ink-Jet printer	

## Section ?

Manufacturer s Name : Moorim Chemical Technology co., Ltd.	Emergency Telephone No. :
Address(Number,Street,City,State,Zip Code)	Telephone No.for information :

## Section? Hazardous Ingredients/ Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV	OTHER LIMITS	%(Optional)
(Specific Chemical Identity) : Common Name (s)				Recommended
Not Hazardous				
Specific Chemical Identity	: Water soluble hydrocarbon 25%, KOH 1%, Water			
Hazardous Mixtures of Identity of other Liquids, Solids, or Gases : Not applicable				

## Section? - Physical / Chemical Characteristics

Boiling Point	: 102 C	Specific Gravity	1.01
Vapor Pressure (mm Hg)	: 17.5 mmHg	Melting Point	: Not applicable
Vapor Density (NR=1)	: Heavier than air	Evaporation rate	: Very Slight ( Butyl Acetate = 1 )
Solubility in Water : Originally Solution			
Appearance and Odor : Clear Solution , mild odor			

## Section? - Fire and Explosion Hazard Data

Flash Point (Method Used)	:Not applicable	Flammable Limits	LED	UEL
Extinguishing Media : Not fire				
Special Fire Fighting Procedure : Not fire				
Unusual Fire and Explosion Hazards : None				

## Section ? - Reactivity Data

Stability Unstable Conditions to avoid : Temperature Extremes

stable 0

Incompatibility (Materials to avoid) : Oxidizing substances, strong acid or bases

Hazardous Decomposition or Byproducts : Oxides of water

Hazardous May Occur

Polymerization Will Not Occur : 0

## Section ? Health Hazard Data

Route(s) of Entry: Inhalation : No Skin : Yes Skin ? Yes Ingestion ? Yes

Health Hazards (Acute and Chronic) Health Hazard are minimal, being neither irritating, corrosive nor toxic. There is no health hazard in normal use condition.

Carcinogenicity : NTP ? IARC Monographs ? OSHA Regulated ?  
:Not applicable :Not applicable :Not applicable

Sign and Symptoms of Exposure : none

Medical Conditions Generally Aggravated by exposure : None

Emergency and First Aid procedures Contact with skin : Normal Washing with Water,

In eyes : Normal Washing with Water Inhalation : remove form exposure

## Section ? - Precautions for Safe handling and Use

Steps to be Taken in Case material is Released or Spilled :

Sweep up and place in a waste disposal container

Waste Disposal Method : Water Waste treat

Precautions to be Taken in Handling and Storing : None

Other Precautions : None

## Section ? - Control Measures

Respiratory Protection(Specify Type) : None

Ventilation Local Exhaust : None Special : None

Mechanical (General) : None Other : None

Protective Gloves : Preferable Eye Protection : None

Other Protective Clothing or Equipment : None

Work/ Hygienic Practices : Ordinary measures of hygiene should be adequated