

# SAFETY DATA SHEET

Date of last issue: 2020-07-01

Date of first issue: 2016-01-15

## SECTION 1. IDENTIFICATION

Product name : Ink  
VJ-MP21INK-BK950/VJ-MP21INK-CY950  
VJ-MP21INK-MA950/VJ-MP21INK-YE950

### Manufacturer or supplier's details

Company name of supplier : MUTOH America Inc.

Address : 4405 East Baseline Road, Suites 120 Phoenix, Arizona 85042

Contact section : Customer Care

Telephone : 480-968-7772

Emergency telephone : 480-968-7772  
During normal opening times

### Recommended use of the chemical and restrictions on use

Recommended use : Digital printing

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Flammable liquids : Category 4

Serious eye damage : Category 1

Specific target organ toxicity  
– single exposure : Category 3

### GHS Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H227 Combustible liquid.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

Precautionary Statements : **Prevention:**  
 P210 Keep away from flames and hot surfaces. - No smoking.  
 P261 Avoid breathing mist/vapors.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
 P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call poison center.  
 P304 + P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
**Storage:**  
 P403 + P235 + P233 Store in a cool, well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
**Disposal:**  
 P501 Dispose of contents/container in accordance with local, state and federal regulations.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
N-Propyl Lactate	53651-69-7	0 - 10
Ethyl Lactate	97-64-3	30 - 60
Diethylene Glycol Diethyl Ether	112-36-7	2 - 10
N-Amyl Propionate	624-54-4	0 - 5
Diacetone Alcohol	123-42-2	0 - 5
Carbon Black	1333-86-4	0 - 5
Gamma Butyrolactone	96-48-0	0 - 5
N-Butanol	71-36-3	0 - 5

### SECTION 4. FIRST AID MEASURES

Skin: Wash with soap and water and rinse thoroughly for 15 minutes. Get medical attention if blisters or inflammation are present on the skin.

Eyes: Flush eyes and under eyelids for 15 minutes with water. Seek medical attention if irritation or redness persists.

Inhalation: Move to fresh air. Seek medical attention if irritation persists.

Ingestion: Do not induce vomiting. Rinse mouth with water but do not swallow and get medical attention. Call Poison Control or Physician immediately.

### SECTION 5. FIRE-FIGHTING MEASURES

Flammable Properties: Flash Point: 70C (158F)

Extinguishing Media: Water spray for cooling, foam, carbon dioxide, dry chemical, or Halon for fire suppression.

Hazardous Combustion Products: Material is a flammable liquid but must be preheated for combustion. May burn in fire conditions releasing products, which may be toxic (CO, CO<sub>2</sub>, and volatile organics).

Fire Fighting Procedures: Wear approved MSHA/NIOSH breathing apparatus and full protective clothing.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate personnel from the area. Shut off all sources of ignition; No flares, smoking, or flames in the area. Wear protective equipment.

Environmental Precautions: Do not flush to sewer or waterways. Dike with soil. Cover with a sheet to prevent expanding odor.

Methods for Cleaning up: For small spills, use absorbent media. Dispose of the absorbent media according to local, regional, and national regulations. For large spills, enclose the spilled liquid with sand. Recover the liquid while covering it with an oil-resistant antistatic sheet. Dispose of material according to local, regional, and national regulations.

## SECTION 7. HANDLING AND STORAGE

In accordance with good industrial practices, handle with care and avoid personal contact. Wear protective gloves, safety goggles, and other protective clothing. Avoid contact with skin, eyes, and clothing. Keep out of direct sunlight and away from heat source. Keep tightly closed. Use adequate ventilation.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this substance should be equipped with an eyewash facility and a safety shower. Use Process enclosures, local exhaust ventilation, or other engineering controls.

Control parameters:  
ACGIH -5.0 ppm TLV  
NIOSH -5.0 ppm TWA, 25.0 mg/m<sup>3</sup>  
OSHA -5.0 ppm TWA, 25 mg/m<sup>3</sup>

Respiratory protection: Chemical cartridge respirator for an organic vapor, or pressure self-contained breathing apparatus.

Hand protection: Chemical resistant gloves made of Nitrile Rubber.

Eye protection: Safety Glasses with side shields, goggles, or face shield.

Skin and body protection: Suitable safety clothes, aprons, shoes and protective boots.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

General Information: Colored liquid.

pH:	Not applicable
Boiling point:	186° C
Melting point:	-28° C
Flash point:	70C (158F) (closed cup)
Autoflammability:	None
Oxidizing properties:	None
Vapor density:	5.1 (air = 1)
Density:	0.98 g/ml (20° C)
Solubility in Water:	no data
Viscosity:	<5 cps
VOC:	None

**SECTION 10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to avoid:	Avoid heat and freezing temperatures.
Materials to avoid:	Strong Oxidizing materials, peroxides, acids or iron.
Hazardous decomposition products:	Will decompose to form carbon oxides when burned.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Routes of toxicology:	Eye, skin, inhalation, and oral.
Acute Health Hazards:	Overexposure of eye surface to ink may be mildly irritating. Overexposure of skin to ink may cause irritation, redness and swelling. Inhalation or overexposure to ink vapors may result in respiratory tract irritation and anesthesia. Ingestion may cause upset stomach.
Chronic Health Hazards:	None known.
Mutagenicity:	The components are not reported to produce mutagenic effects in humans.
Carcinogenicity:	The components are not reported to produce carcinogenic effects in humans.
Irritancy of product:	Exposure of ink to eye, skin, and inhalation may irritate tissue.
Acute Toxicity Estimates:	
Acute oral toxicity :	LD50 Oral – Rat – 5,000 mg/kg
Acute dermal toxicity:	No Data
Acute inhalation toxicity (mist):	No Data
Skin and Eye:	
Skin corrosion/irritation:	Skin – Rabbit Result: No Skin irritation – 24h

Serious eye damage/eye irritation

Eyes – Rabbit  
Result: Eye irritation – 24 h

Sensitization:	Not Determined
Mutagenicity:	Not Determined
Carcinogenicity:	Not Established IARC, NTP, EU, OSHA and ACGIH.
Reproductive Toxicity:	Not Determined
Chronic toxicity or long term toxicity:	Not Determined
Aspiration hazard:	Not Determined

## SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:	Toxicity to fish LC50 – Lepomis macrochirus (bluegill) – 10mg/l – 96 h Toxicity to daphnia and other aquatic invertebrates EC50 – Daphnia magna (Water Flea) – 55 mg/l – 24 h
Persistence/degradability:	Not Determined
Bioaccumulation:	Not Determined
Mobility:	Not Determined

## SECTION 13. DISPOSAL CONSIDERATIONS

Waste from residues:	Burn in a chemical incinerator equipped with an afterburner and scrubber. Consult an expert on the disposal of recovered material.
Any contaminated packaging:	Do not put other material into the used container and do not use it for other purpose. Wash the inside of the container before disposal.

Comply with all federal, state and local regulations.  
Do not dump this product into sewers, on the ground or into any body of water.

## SECTION 14. TRANSPORT INFORMATION

The UN classification number

UN Class:	Not applicable
UN Number:	Not applicable
Proper shipping Name:	Not applicable
Packing Group:	Not applicable
Marine Pollutant:	Not applicable

Specific precautionary transport measures and conditions:	Avoid falling, dropping, shocking and dragging a container. Protect a container from direct sunlight.
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By 49 CFR 172.101 published by the US department of Transportation, this product is **not** considered Dangerous Goods.

DOT listing:	None
Packing group:	None
DOT Labels required:	None
Marine pollutant:	Components are not listed as marine pollutants.

Sea transport

IMDG

Not classified as dangerous goods under transport regulations

Air transport

IATA/ICAO

Not classified as dangerous goods under transport regulations

**SECTION 15. REGULATORY INFORMATION**

All components are on TSCA, EINECS/ELINCS, AICS, DSL, ENCS, and ECL.  
All components are REACH registered and not listed in Annex XIV of EC No., 1907/2006 REACH Restriction.

This product does not contain any chemical components subject to reporting levels established by SARA Title III section 313.

Regulatory information with regard to this product in your country or region should be examined by the end user.

**SECTION 16. OTHER INFORMATION**

Revision Date : 2020-07-01

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

# SAFETY DATA SHEET

Date of last issue: 2020-07-01

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VJ-MP21INK-CL1000B/VJ-MP21INK-CL950

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Address : 4405 East Baseline Road, Suites 120 Phoenix, Arizona 85042

Contact section : Customer Care

Telephone : 480-968-7772

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– single exposure : Category 3

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Signal Word : Danger

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H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

Precautionary Statements : **Prevention:**  
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 P261 Avoid breathing mist/vapors.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
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 P403 + P235 + P233 Store in a cool, well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
**Disposal:**  
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Inhalation: Move to fresh air. Seek medical attention if irritation persists.

Ingestion: Do not induce vomiting. Rinse mouth with water but do not swallow and get medical attention. Call Poison Control or Physician immediately.

### SECTION 5. FIRE-FIGHTING MEASURES

Flammable Properties: Flash Point: 70C (158F)

Extinguishing Media: Water spray for cooling, foam, carbon dioxide, dry chemical, or Halon for fire suppression.



Hazardous Combustion Products:	Material is a flammable liquid but must be preheated for combustion. May burn in fire conditions releasing products, which may be toxic (CO, CO <sub>2</sub> , and volatile organics).
Fire Fighting Procedures:	Wear approved MSHA/NIOSH breathing apparatus and full protective clothing.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Evacuate personnel from the area. Shut off all sources of ignition; No flares, smoking, or flames in the area. Wear protective equipment.
Environmental Precautions:	Do not flush to sewer or waterways. Dike with soil. Cover with a sheet to prevent expanding odor.
Methods for Cleaning up:	For small spills, use absorbent media. Dispose of the absorbent media according to local, regional, and national regulations. For large spills, enclose the spilled liquid with sand. Recover the liquid while covering it with an oil-resistant antistatic sheet. Dispose of material according to local, regional, and national regulations.

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Avoid contact with skin, eyes, and clothing.  
Keep out of direct sunlight and away from heat source.  
Keep tightly closed.  
Use adequate ventilation.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Facilities storing or utilizing this substance should be equipped with an eyewash facility and a safety shower. Use Process enclosures, local exhaust ventilation, or other engineering controls.
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NIOSH -5.0 ppm TWA, 25.0 mg/m <sup>3</sup>	
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Respiratory protection:	Chemical cartridge respirator for an organic vapor, or pressure self-contained breathing apparatus.
Hand protection:	Chemical resistant gloves made of Nitrile Rubber.
Eye protection:	Safety Glasses with side shields, goggles, or face shield.
Skin and body protection:	Suitable safety clothes, aprons, shoes and protective boots.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

General Information: Colorless liquid.

pH:	Not applicable
Boiling point:	186° C
Melting point:	-28° C
Flash point:	70C (158F) (closed cup)
Autoflammability:	None
Oxidizing properties:	None
Vapor density:	5.1 (air = 1)
Density:	0.98 g/ml (20° C)
Solubility in Water:	no data
Viscosity:	<5 cps
VOC:	None

**SECTION 10. STABILITY AND REACTIVITY**

Stability:	Stable under normal conditions.
Conditions to avoid:	Avoid heat and freezing temperatures.
Materials to avoid:	Strong Oxidizing materials, peroxides, acids or iron.
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Carcinogenicity:	The components are not reported to produce carcinogenic effects in humans.
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Acute oral toxicity :	LD50 Oral – Rat – 5,000 mg/kg
Acute dermal toxicity:	No Data
Acute inhalation toxicity (mist):	No Data
Skin and Eye:	
Skin corrosion/irritation:	Skin – Rabbit Result: No Skin irritation – 24h
Serious eye damage/eye irritation	Eyes – Rabbit

Result: Eye irritation – 24 h

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Comply with all federal, state and local regulations.  
Do not dump this product into sewers, on the ground or into any body of water.

## SECTION 14. TRANSPORT INFORMATION

The UN classification number

UN Class:	Not applicable
UN Number:	Not applicable
Proper shipping Name:	Not applicable
Packing Group:	Not applicable
Marine Pollutant:	Not applicable

Specific precautionary transport measures and conditions:	Avoid falling, dropping, shocking and dragging a container. Protect a container from direct sunlight.
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By 49 CFR 172.101 published by the US department of Transportation, this product is **not** considered Dangerous Goods.

DOT listing:	None
Packing group:	None
DOT Labels required:	None
Marine pollutant:	Components are not listed as marine pollutants.

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