

# SAFETY DATA SHEET

Date of last issue: -  
Date of first issue: 2021-03-01

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : VJ-MS31-WH220AU

### Manufacturer or supplier's details

Company : MUTOH AUSTRALIA PTY. LTD.  
 Address : Unit 19/76 Reserve Road, Artarmon, NSW 2064, Australia  
 Contact section : admin@mutoh-au.com or +61 2 9437 1366  
 Telephone : +61 2 94371366  
 Emergency telephone number : Emergency phone number (business hours): +61 2 9437 1366

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


Recommended use : Digital Printing

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Flammable liquids : Category 4  
 Skin corrosion/irritation : Category 2  
 Reproductive toxicity : Category 2

### GHS label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : Combustible liquid.  
 Causes skin irritation.  
 Suspected of damaging fertility or the unborn child

Precautionary statements : **Prevention:**  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
 IF exposed or concerned: Get medical advice/ attention.  
 IF ON SKIN: Wash with plenty of soap and water.  
**Storage:**  
 Store in a well-ventilated place. Keep cool.  
**Disposal:**  
 Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

### Other hazards which do not result in classification

Ink contact with skin may cause irritation, swelling or redness.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Diethylene glycol diethyl ether	112-36-7	50 - 60
Diethylene Glycol Methyl Ethyl Ether	1002-67-1	15 - 25
Titanium dioxide	13463-67-7	10 - 20
Proprietary organic materials	Trade secret	5 - 15

## SECTION 4. FIRST AID MEASURES

Description of first aid measures

- Inhalation : IF exposed or concerned: Get medical advice/attention.  
Remove subject to ventilated fresh air. If not breathing, give artificial respiration right away.  
If breathing is difficult, give oxygen.
- Skin : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.  
If skin irritation occurs: Get medical advice/attention.
- Eyes : Immediately flush with room temperature, low pressure and clean water for at least 15 minutes.  
Seek medical attention if eye irritation continues.
- Ingestion : IF exposed or concerned: Get medical advice/attention.  
IF SWALLOWED: Do not induce vomiting.
- Most important symptoms and effects, both acute and delayed : Skin: Ink contact with skin may cause irritation, swelling or redness.
- Indication of any immediate medical attention and special treatment needed : Not necessary

## SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media

- Suitable extinguishing media : Water spray  
Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Alcohol-resistant foam
- Unsuitable extinguishing media : None known.
- Special hazards arising from the substance or mixture : None
- Advice for firefighters : Extinguish to use fire fighting media or plentiful fog water. Put protection wear without fail in case of fire fighting work; do not work in the leeward.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- For non-emergency : Eye or Skin protection required during clean-up. Use proper

personnel : ventilation.

For emergency responders: None

Environmental precautions : Do not release to sewer, surface-or ground-water.

Methods and materials for containment and cleaning up

Advice on how to contain a spill : Use sponges to wipe-up ink.

Advice how to clean-up a spill : Rinse area with damp cloth. Place waste in closed container for disposal. Wash hands with soap and water.

Any other information : Do not dispose of waste to the sewer.

Reference to other sections : Please refer SECTION 13 for disposal.

## SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Recommendations : Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use proper ventilation and no fire in work place.  
Keep out of reach of children and do not drink ink.

Advice on general occupational hygiene : Avoid contact with skin, eyes or clothing.  
In the case of skin contact, wash with soap and water.

Conditions for safe storage, including any incompatibilities : Store locked up.  
Do not store the cartridge in high or freezing temperatures.  
Keep cartridge out of direct sunlight.  
Do not store the cartridge with oxidizing agents or explosives.  
Make sure cartridge is dry before insertion into printer housing.

Specific end use(s): : Not specified.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Titanium dioxide	13463-67-7	TWA	10 mg/m3	AU OEL
	Further information: This value is for inhalable dust containing no asbestos and < 1% crystalline silica			
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

Exposure Controls

Appropriate engineering controls : Proper ventilation.

Individual protection measures, such as personal protective equipment

Use of personal protective Equipment : Not required under suitable use as setting the cartridge on the printer under ventilation.  
If there is a possibility of exposure to raw ink: Wear protective gloves/ protective clothing/ eye protection/ face protection/ respiratory protection.

Detailed specification on equipment to provide adequate and suitable protection

(a) eye/face protection : Not required under suitable use as setting the cartridge on the printer.

If there is a possibility of exposure to raw ink: Wear eye protection/ face protection.

(b) skin protection: : Not required under suitable use as setting the cartridge on the hand protection & printer.  
Others : If there is a possibility of exposure to raw ink: Wear protective gloves/ protective clothing

(c) respiratory protection : Not required under suitable use as setting the cartridge on the printer under ventilation.  
In case of inadequate ventilation wear respiratory protection.

(d) thermal hazards : Not required under suitable use as setting the cartridge on the printer.

Environmental exposure controls : Not established

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : white

Odour : slightly

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : 73.7°C (Closed cup)

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Solubility(ies) : soluble

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature	:	No data available
Viscosity	:	Less than 5 mPa·s at 20°C
Explosive properties	:	None
Oxidizing properties	:	None
Particle size	:	Not applicable

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under normal temperature
Chemical stability	:	Stable under normal temperature
Possibility of hazardous reactions	:	None
Conditions to avoid	:	High and freezing temperatures
Incompatible materials	:	Oxidizers and explosives
Hazardous decomposition products	:	No data available

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects:

Acute toxicity	:	Oral LD50: Not meet the criteria for classification according to EU Directive 1999/45/EC Dermal LD50: Not meet the criteria for classification according to EU Directive 1999/45/EC
Irritation		
Eye	:	Not meet the criteria for classification according to EU Directive 1999/45/EC
Skin	:	Xi; R38 for classification according to EU Directive 1999/45/EC Category2 for classification according to EU Directive (EC) No 1272/2008
Corrosivity	:	Not meet the criteria for classification according to EU Directive 1999/45/EC
Sensitisation		
Skin	:	Not meet the criteria for classification according to EU Directive 1999/45/EC
Carcinogenicity	:	Titanium dioxide is classified as “possibly carcinogen to human” (Group 2B) in animal chronic inhalation studies. The tumor formulation observed in only rats with animal chronic inhalation study are attributed to “lung overloading”, a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended does not result in inhalation of excessive dust. Epidemiological study to date have not revealed any evidence of the relation between exposure to titanium dioxide and diseases of the respiratory tract beyond general effects of dust.
Mutagenicity	:	Not meet the criteria for classification according to EU Directive 1999/45/EC

Toxicity for reproduction : Category2 (Diethylene Glycol Methyl Ethyl Ether)

**SECTION 12. ECOLOGICAL INFORMATION**

Toxicity : No data available

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Results of PBT and vPvB assessment : Has not carried out PBT and vPvB assessment

Other adverse effects : No data available

**SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**SECTION 14. TRANSPORT INFORMATION**

UN number : Not applicable

UN proper shipping name : Not applicable

Transport hazard class(es) : Not applicable

Packing group : Not applicable

Environmental hazards : Not applicable

Special precautions for user : Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

**SECTION 15. REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Standard for the Uniform Scheduling of Medicines and Poisons : No poison schedule number allocated

Prohibition/Licensing Requirements : There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

**The components of this product are reported in the following inventories:**

AICS : All ingredients listed or exempt.

**SECTION 16. OTHER INFORMATION**

**Further information**

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

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

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.  
ACGIH / TWA : 8-hour, time-weighted average  
AU OEL / TWA : Exposure standard - time weighted average

This "Safety Data Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. It is subject to revision from time to time. MUTOH does not warrant the completeness or accuracy of the information contained herein.