

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : VERSAPASS® DN Magenta

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Inkjet printing  
Recommended use : Ink and Toners  
Restrictions on use : No additional information available

#### 1.3. Supplier

Memjet, Ltd  
61-62 Fitzwilliam Lane  
Dublin 2, Ireland  
T +353 1 678 0420  
msds@memjet.com  
www.memjet.com

**Importer**  
Memjet North Ryde Pty Ltd.  
6-8 Lyonpark Road  
North Ryde NSW 2113 - Australia  
T +61 2 8875 3100

#### 1.4. Emergency telephone number

Emergency number : For Hazardous Materials Incidents (spill, leak, fire, exposure, or accident) call: CHEMTREC:  
U.S. 1-800-424-9300 International: +1-703-527-3887; CHEMTREC (24 HOURS)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS classification

Eye Irrit. 2A H319 Causes serious eye irritation.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.  
Full text of hazard classes and H-statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) : Warning

Hazard statements (GHS) : H319 - Causes serious eye irritation.  
H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS) : P260 - Do not breathe mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 - Get medical advice/attention if you feel unwell.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS)

4% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
7% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
7% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS classification
Water	(CAS-No.) 7732-18-5	75	Not classified
Ethylene glycol	(CAS-No.) 107-21-1	8	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Glycerol	(CAS-No.) 56-81-5	1 - 5	Not classified
Ethoxylated acetylenic diols	(CAS-No.) 1606-85-5	1 - 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Proprietary magenta dye	(CAS-No.) trade secret	4	Eye Irrit. 2A, H319 Aquatic Chronic 2, H411
2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate	(CAS-No.) 9014-85-1	1 - 1.5	Eye Dam. 1, H318 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person.
- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Gently wash with plenty of soap and water.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. If swallowed, rinse mouth with water (only if the person is conscious).

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after eye contact : Causes serious eye irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

No special procedures required.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None known.

#### 5.2. Specific hazards arising from the chemical

- Fire hazard : Presents no particular fire or explosion hazard.
- Explosion hazard : Product is not explosive.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Use extinguishing media appropriate for surrounding fire.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flammable resistant/retardant clothing. Wear a self-contained breathing apparatus.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Avoid contact with skin and eyes. Wear suitable gloves. Butyl rubber gloves. natural rubber gloves.
- Emergency procedures : Evacuate unnecessary personnel. Stop leak without risks if possible.

##### 6.1.2. For emergency responders

- Protective equipment : Avoid all eye and skin contact and do not breathe vapour and mist. Wear suitable protective clothing and gloves. Butyl rubber. rubber. Use eye protection designed to protect against liquid splashes.

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Emergency procedures : Stop leak if safe to do so.

### 6.2. Environmental precautions

Do not discharge into drains or the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

### 6.4. Reference to other sections

Section 7: safe handling. Section 8: personal protective equipment. Section 13: disposal information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Emptied container retains vapor and product residue.

Hygiene measures : Wash hands, forearms and face thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store away from heat.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Glycerol (56-81-5)		
HCIS	TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Ethylene glycol (107-21-1)		
HCIS	TWA (ppm)	20 ppm (vapour)
HCIS	STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
HCIS	STEL (ppm)	40 ppm (vapour)
HCIS	Remark (ACGIH)	Kidney dam; URT & eye irr

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid splashing. No special work practices are needed beyond the above recommendations under anticipated conditions of normal use.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Safety glasses. Gloves.

#### Hand protection:

Wear suitable gloves. Butyl rubber gloves. natural rubber gloves.

#### Eye protection:

Use splash goggles when eye contact due to splashing is possible.

#### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid  
Appearance : Magenta liquid.  
Colour : magenta  
Odour : odourless  
Odour threshold : No data available  
pH : 7.1

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Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: > 1
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Keep away from : Incompatible materials.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Unknown acute toxicity (GHS)	4% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 7% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 7% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
<b>Glycerol (56-81-5)</b>	
LD50 oral rat	5570 mg/kg
ATE US (oral)	5570 mg/kg bodyweight
<b>Ethoxylated acetylenic diols (1606-85-5)</b>	
LD50 oral rat	1230 mg/kg (Based on similar product)
ATE US (oral)	1230 mg/kg bodyweight
<b>2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

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### 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)

LC50 inhalation rat (mg/l)	> 2 mg/l/4h
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### Ethylene glycol (107-21-1)

LD50 dermal rat	> 3500 mg/kg mouse
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LC50 inhalation rat (mg/l)	> 2.5 mg/l/4h
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ATE US (oral)	500 mg/kg bodyweight
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Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

### 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)

NOAEL (subacute, oral, animal/male, 28 days)	200 mg/kg bodyweight
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### Ethylene glycol (107-21-1)

LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day
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NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day kidney
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STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Viscosity, kinematic : No data available

Likely routes of exposure : Skin and eye contact.

Symptoms/effects after eye contact : Causes serious eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : May cause long lasting harmful effects to aquatic life.

### Glycerol (56-81-5)

LC50 fish 1	68 - 72 mg/l
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### 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)

LC50 fish 1	52.5 mg/l juvenile <i>S. maximus</i>
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EC50 crustacea	166 mg/l
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ErC50 (algae)	15 mg/l
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NOEC chronic algae	1 mg/l
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### Ethylene glycol (107-21-1)

LC50 fish 1	72860 mg/l <i>Pimephales promelas</i>
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EC50 crustacea	> 100 mg/l
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NOEC chronic fish	15380 mg/l <i>Pimephales promelas</i>
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NOEC chronic crustacea	8590 mg/l <i>Ceriodaphnia</i> sp.
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### 12.2. Persistence and degradability

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Persistence and degradability	Not established.
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#### Glycerol (56-81-5)

Persistence and degradability	Readily biodegradable.
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#### 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)

Persistence and degradability	Not readily biodegradable.
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#### Ethylene glycol (107-21-1)

Persistence and degradability	Readily biodegradable.
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### 12.3. Bioaccumulative potential

#### 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)

Bioconcentration factor (BCF REACH)	< 24
Bioaccumulative potential	Not expected to bioaccumulate.

#### Ethylene glycol (107-21-1)

Log Pow	- 1.36
Bioaccumulative potential	Not expected to bioaccumulate.

### 12.4. Mobility in soil

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Ecology - soil	No additional information available.
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### 12.5. Other adverse effects

Other information : Do not discharge into drains or the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods	: Do not remove as household garbage. Dispose in a safe manner in accordance with local/national regulations.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

## SECTION 14: Transport information

### ADG

Not applicable

### Transport by sea

Not regulated.

### Air transport

Not regulated.

## SECTION 15: Regulatory information

### National regulations

#### Glycerol (56-81-5)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on Taiwan National Chemical Inventory  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)

#### Ethylene glycol (107-21-1)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on Taiwan National Chemical Inventory  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

## SECTION 16: Other information

Data sources	: ACGIH (American Conference of Government Industrial Hygienists). European Chemicals Agency (ECHA) C&L Inventory database. Accessed at
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<http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>.

National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition.

Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition.

Manufacturer Information.

US National Library of Medicine National Institutes of Health Haz-Map. Accessed at <http://hazmap.nlm.nih.gov>.

Full text of H-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

ACGIH (American Conference of Government Industrial Hygienists)
ATE: Acute Toxicity Estimate
CAS (Chemical Abstracts Service) number
CLP: Classification, Labelling, Packaging.
EC50: Environmental Concentration associated with a response by 50% of the test population.
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
LD50: Lethal Dose for 50% of the test population
NOAEL: No Observable Adverse Effect Level
TWA: Time Weighted Average

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