

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : VERSAPASS® DN Magenta

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Inkjet printing  
Function or use category : Ink

##### 1.2.2. Uses advised against

Restrictions on use : No additional information available

#### 1.3. Details of the supplier of the safety data sheet

Memjet Ltd.  
61-62 Fitzwilliam Lane  
Dublin, Ireland  
T +353 1 678 0420  
[msds@memjet.com](mailto:msds@memjet.com) - [www.memjet.com](http://www.memjet.com)

#### 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)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2 H319  
Aquatic Chronic 3 H412

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

##### Adverse physicochemical, human health and environmental effects

Causes serious eye irritation. May cause long lasting harmful effects to aquatic life.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H319 - Causes serious eye irritation.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective gloves.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
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.

# VERSAPASS® DN Magenta

## Safety Data Sheet

according to Regulation (EU) 2015/830

EUH-statements

: EUH208 - Contains 1,2-benzisothiazolone(2634-33-5). May produce an allergic reaction.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	<75	Not classified
Ethylene glycol	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1	8	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Glycerol	(CAS-No.) 56-81-5 (EC-No.) 200-289-5	1 - 5	Not classified
Ethoxylated acetylenic diols	(CAS-No.) 1606-85-5 (EC-No.) 216-526-0	1 - 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Proprietary magenta dye	(CAS-No.) not assigned (EC-No.) 445-480-6	4	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate	(CAS-No.) 9014-85-1 (EC-No.) 500-022-5	1 - 1.5	Eye Dam. 1, H318 Aquatic Chronic 3, H412
1,2-benzisothiazolone	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	0.036 - 0.04	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400
<b>Specific concentration limits:</b>			
Name	Product identifier	Specific concentration limits	
1,2-benzisothiazolone	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	( 0.05 =<C < 100) Skin Sens. 1, H317	

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact

: May cause an allergic skin reaction.

Symptoms/effects after eye contact

: Causes serious eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

No special procedures required.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media

: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media

: None known.

# VERSAPASS® DN Magenta

## Safety Data Sheet

according to Regulation (EU) 2015/830

### 5.2. Special hazards arising from the substance or mixture

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

### 5.3. Advice for firefighters

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. EN469.

## 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 according to EN 166, designed to protect against liquid splashes.  
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

No additional information available

### 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

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.

### 7.3. Specific end use(s)

Inkjet printing.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Glycerol (56-81-5)		
United Kingdom	WEL TWA (mg/m³)	10 mg/m³

  

Ethylene glycol (107-21-1)		
EU	Local name	Ethylene glycol
EU	IOELV TWA (mg/m³)	52 mg/m³
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m³)	104 mg/m³
EU	IOELV STEL (ppm)	40 ppm
EU	Notes	Skin

# VERSAPASS® DN Magenta

## Safety Data Sheet

according to Regulation (EU) 2015/830

Ethylene glycol (107-21-1)		
United Kingdom	WEL TWA (mg/m³)	52 mg/m³ (vapour, Sk) 10 mg/m³ (Sk)
United Kingdom	WEL TWA (ppm)	20 ppm (vapour, Sk)
United Kingdom	WEL STEL (mg/m³)	104 mg/m³ (vapour, Sk)
United Kingdom	WEL STEL (ppm)	40 ppm (vapour, Sk)

### 8.2. Exposure controls

#### Appropriate engineering controls:

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

<b>Hand protection:</b>
Wear suitable gloves. Butyl rubber gloves. natural rubber gloves. EN374
<b>Eye protection:</b>
Use splash goggles when eye contact due to splashing is possible. EN166
<b>Respiratory protection:</b>
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
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 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
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 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.

# VERSAPASS® DN Magenta

## Safety Data Sheet

according to Regulation (EU) 2015/830

### 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 (Based on available data, the classification criteria are not met)

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

Glycerol (56-81-5)	
LD50 oral rat	5570 mg/kg

Ethoxylated acetylenic diols (1606-85-5)	
LD50 oral rat	1230 mg/kg (Based on similar product)

2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2 mg/l/4h

Water (7732-18-5)	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 6 mg/l/4h

Ethylene glycol (107-21-1)	
LD50 dermal rat	> 3500 mg/kg mouse
LC50 inhalation rat (mg/l)	> 2.5 mg/l/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 2.5 mg/l/4h

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 (Based on available data, the classification criteria are not met)

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

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

Ethylene glycol (107-21-1)	
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day kidney

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

Potential adverse human health effects and symptoms : Causes serious eye irritation.

# VERSAPASS® DN Magenta

## Safety Data Sheet

according to Regulation (EU) 2015/830

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: May cause long lasting harmful effects to aquatic life.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.

##### 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>
EC50 Daphnia 1	166 mg/l
ErC50 (algae)	15 mg/l
NOEC chronic algae	1 mg/l

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

LC50 fish 1	72860 mg/l <i>Pimephales promelas</i>
EC50 Daphnia 1	> 100 mg/l
NOEC chronic fish	15380 mg/l <i>Pimephales promelas</i>
NOEC chronic crustacea	8590 mg/l <i>Ceriodaphnia</i> sp.

#### 12.2. Persistence and degradability

##### VERSAPASS® DN Magenta

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

##### VERSAPASS® DN Magenta

Ecology - soil	No additional information available.
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#### 12.5. Results of PBT and vPvB assessment

##### Component

Glycerol (56-81-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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# VERSAPASS® DN Magenta

## Safety Data Sheet

according to Regulation (EU) 2015/830

Ethylene glycol (107-21-1)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

Additional information

: Do not discharge into drains or the environment

## SECTION 13: Disposal considerations

### 13.1. Waste treatment 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

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR)

: Not regulated.

UN-No. (IMDG)

: Not regulated.

UN-No. (IATA)

: Not regulated.

UN-No. (ADN)

: Not regulated.

UN-No. (RID)

: Not regulated.

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)

: Not regulated.

Proper Shipping Name (IMDG)

: Not regulated.

Proper Shipping Name (IATA)

: Not regulated.

Proper Shipping Name (ADN)

: Not regulated.

Proper Shipping Name (RID)

: Not regulated.

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)

: Not regulated.

#### IMDG

Transport hazard class(es) (IMDG)

: Not regulated.

#### IATA

Transport hazard class(es) (IATA)

: Not regulated.

#### ADN

Transport hazard class(es) (ADN)

: Not regulated.

#### RID

Transport hazard class(es) (RID)

: Not regulated.

### 14.4. Packing group

Packing group (ADR)

: Not regulated.

Packing group (IMDG)

: Not regulated.

Packing group (IATA)

: Not regulated.

Packing group (ADN)

: Not regulated.

Packing group (RID)

: Not regulated.

### 14.5. Environmental hazards

Dangerous for the environment

: No

Marine pollutant

: No

Other information

: No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not regulated.

# VERSAPASS® DN Magenta

## Safety Data Sheet

according to Regulation (EU) 2015/830

### Transport by sea

Not regulated.

### Air transport

Not regulated.

### Inland waterway transport

Not regulated.

### Rail transport

Not regulated.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	VERSAPASS® DN Magenta - 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	VERSAPASS® DN Magenta - Ethoxylated acetylenic diols - 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate - ethylene glycol
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Ethoxylated acetylenic diols - 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate - ethylene glycol

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Added	
2.2	Precautionary statements (CLP)	Modified	
2.2	EUH-statements	Added	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	



# VERSAPASS® DN Magenta

## Safety Data Sheet

according to Regulation (EU) 2015/830

11.1	Potential adverse human health effects and symptoms	Added	
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### 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
TWA: Time Weighted Average

Data sources : ACGIH (American Conference of Government Industrial Hygienists).  
European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <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- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
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. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains 1,2-benzisothiazolone(2634-33-5). May produce an allergic reaction.

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Eye Irrit. 2	H319	Calculation method
Aquatic Chronic 3	H412	Calculation method

# VERSAPASS® DN Magenta

## Safety Data Sheet

according to Regulation (EU) 2015/830

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**SDS Prepared by:** The Redstone Group  
6077 Frantz Rd  
Suite 206  
Dublin, Ohio USA 43017  
+1.614.923.7472  
[www.redstonegrp.com](http://www.redstonegrp.com)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*