

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Name : VERSAPASS® DA Yellow

**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 : printing inks

**1.2.2. Uses advised against**

Restrictions on use : Other

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

Memjet Ltd.  
Trintech Building  
South County Business Park  
Leopardstown  
Dublin D18 H5H9  
Ireland  
T +353 1 678 0420  
msds@memjet.com  
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
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

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

Not classified

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

May cause an allergic skin reaction.

**2.2. Label elements**

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

EUH-statements : EUH208 - Contains 1,2-benzisothiazolone(2634-33-5). May produce an allergic reaction.  
EUH210 - Safety data sheet available on request.

**2.3. Other hazards**

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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### 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]
Ethylene glycol substance with national workplace exposure limit(s) (IE); substance with a Community workplace exposure limit	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816-28	5 - <10	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Glycerol (glycerin, glycerine) substance with national workplace exposure limit(s) (IE)	CAS-No.: 56-81-5 EC-No.: 200-289-5 REACH-no: 01-2119471987-18	1 - <5	Not classified
1,2-benzisothiazolone	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6	0.036 – 0.042	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400

Specific concentration limits:		
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

Comments : The remaining components are not hazardous and/or present at amounts below reportable limits. Amounts are listed as ranges; the exact percentage of composition is withheld as a trade secret.

Full text of H- and EUH-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.

#### 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.

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

Fire hazard : 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/flame resistant/retardant clothing. Wear a self contained breathing apparatus. EN469.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Take up small spills with dry chemical absorbent.

#### 6.1.2. For emergency responders

Emergency procedures : Take up small spills with dry chemical absorbent.

### 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 contact with skin, eyes and clothing.  
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.  
Incompatible products : None known.

### 7.3. Specific end use(s)

Inkjet printing.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Ethylene glycol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylene glycol
IOEL TWA	52 mg/m <sup>3</sup>
IOEL TWA [ppm]	20 ppm
IOELV STEL (mg/m <sup>3</sup> )	104 mg/m <sup>3</sup>
IOELV STEL (ppm)	40 ppm
Notes	Skin

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

Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
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#### Ireland - Occupational Exposure Limits

Local name	Ethane-1,2-diol [Ethylene glycol]
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OEL (8 hours ref) (mg/m³)	10 mg/m³ particulate 52 mg/m³ vapour
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OEL (8 hours ref) (ppm)	20 ppm vapour
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OEL (15 min ref) (mg/m³)	104 mg/m³ vapour
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OEL (15 min ref) (ppm)	40 ppm vapour
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Regulatory reference	Chemical Agents Code of Practice 2020
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### Glycerol (glycerin, glycerine) (56-81-5)

#### Ireland - Occupational Exposure Limits

OEL (8 hours ref) (mg/m³)	10 mg/m³
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#### 8.1.2. Recommended monitoring procedures

No data available

#### 8.1.3. Air contaminants formed

No data available

#### 8.1.4. DNEL and PNEC

No data available

#### 8.1.5. Control banding

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

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

#### 8.2.2. Personal protection equipment

##### 8.2.2.1. Eye and face protection

###### Eye protection:

None under normal use

##### 8.2.2.2. Skin protection

###### Hand protection:

nitrile rubber gloves. EN374

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

None under normal use

##### 8.2.2.4. Thermal hazards

No data available

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Yellow.

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Appearance	: Yellow liquid.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability (solid, gas)	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Soluble in water.
Log Kow	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No data available

#### 9.2.2. Other safety characteristics

No data 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

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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)

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

LD50 Oral rat	7712 mg/kg Source: ECHA
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### Ethylene glycol (107-21-1)

LD50 Dermal rat > 3500 mg/kg

LC50 Inhalation rat > 2.5 mg/l/4h

### Glycerol (glycerin, glycerine) (56-81-5)

LD50 Oral rat 12600 mg/kg bodyweight Animal: rat, Animal sex: female

LD50 Dermal rabbit > 10000 mg/kg

LC50 Inhalation rat (vapours) > 2.75 mg/l Source: ECHA

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

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

pH 6 – 7.5 Source: GESTIS

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

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

pH 6 – 7.5 Source: GESTIS

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)

### 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 kidneys

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

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

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

Viscosity, kinematic 14.505 mm²/s

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : None known

### 11.2.2. Other information

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

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

LC50 fish 1 72860 mg/l Pimephales promelas

EC50 crustacea > 100 mg/l Daphnia magna

EC50 96h - Algae [1] 3536 mg/l green algae

EC50 96h - Algae [2] 6500 – 13000 mg/l Pseudokirchneriella subcapitata

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

NOEC (chronic)	≥ 1000 mg/l Americamysis bahia, 23 d
NOEC chronic fish	15380 mg/l Pimephales promelas
NOEC chronic crustacea	8590 mg/l Ceriodaphnia sp.

### Glycerol (glycerin, glycerine) (56-81-5)

LC50 fish 1	54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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## 12.2. Persistence and degradability

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

Persistence and degradability	Readily biodegradable.
Biodegradation	> 60 % 28 days

### Glycerol (glycerin, glycerine) (56-81-5)

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

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

Log Pow	- 1.36
Bioaccumulative potential	Not expected to bioaccumulate.

### Glycerol (glycerin, glycerine) (56-81-5)

Log Pow	-1.75 Source: ECHA
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## 12.4. Mobility in soil

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

Mobility in soil	0.2 Source: HSDB
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## 12.5. Results of PBT and vPvB assessment

### Component

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
Glycerol (glycerin, glycerine) (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

## 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : None known.

## 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Do not dispose in 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.

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### SECTION 14: Transport information

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

#### 14.1. UN number or ID 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)

<b>ADR</b>	
Transport hazard class(es) (ADR)	: Not regulated

<b>IMDG</b>	
Transport hazard class(es) (IMDG)	: Not regulated

<b>IATA</b>	
Transport hazard class(es) (IATA)	: Not regulated

<b>ADN</b>	
Transport hazard class(es) (ADN)	: Not regulated

<b>RID</b>	
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

**Transport by sea**  
Not regulated

**Air transport**  
Not regulated

**Inland waterway transport**  
Not regulated

**Rail transport**  
Not regulated



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### 14.7. Maritime transport in bulk according to IMO instruments

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

##### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Ethylene glycol ; 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate ; Azo Dye	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
3(c)	2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate	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

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No data available

### 15.2. Chemical safety assessment

No data available

## SECTION 16: Other information

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

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### Abbreviations and acronyms:

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
EUH210	Safety data sheet available on request.
H302	Harmful if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Safety Data Sheet (SDS), EU

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.