

**SECTION 1: Identification**

**1.1. Identification**

Product form : Mixture  
 Trade name : VERSAPASS® DG Yellow

AstroNova P/N: 14808103,  
 14808303, 30010003, 30010012,  
 30010019, ATM10003579,  
 30030003, 30030008, 30030012

**1.2. Recommended use and restrictions on use**

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

**1.3. Supplier**

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)

Memjet  
 10918 Technology Place  
 San Diego, CA 92127 - USA  
 T 858 673 3300  
[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)

**SECTION 2: Hazard(s) identification**

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

**GHS US classification**

|              |      |                                                                   |
|--------------|------|-------------------------------------------------------------------|
| Eye Irrit. 2 | H319 | Causes serious eye irritation                                     |
| Repr. 1B     | H360 | May damage fertility or the unborn child                          |
| 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 US labeling**

Hazard pictograms (GHS US) : 

Signal word (GHS US) : Danger  
 Hazard statements (GHS US) : H319 - Causes serious eye irritation  
 H360 - May damage fertility or the unborn child  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 Precautionary statements (GHS US) : P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P260 - Do not breathe mist, spray, vapors.  
 P264 - Wash hands thoroughly after handling.  
 P280 - Wear protective gloves, eye 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  
 P308+P313 - If exposed or concerned: Get medical advice/attention.  
 P314 - Get medical advice/attention if you feel unwell.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P405 - Store locked up.  
 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 US)**

Not applicable

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                                                                                                                                              | Product identifier    | %         | GHS US classification                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------|----------------------------------------------|
| Water                                                                                                                                             | (CAS-No.) 7732-18-5   | 65 - 80   | Not classified                               |
| Ethylene glycol                                                                                                                                   | (CAS-No.) 107-21-1    | 9 - 10    | Acute Tox. 4 (Oral), H302<br>STOT RE 2, H373 |
| 2-pyrrolidone                                                                                                                                     | (CAS-No.) 616-45-5    | 7 - 9     | Eye Irrit. 2A, H319<br>Repr. 1B, H360        |
| Glycerol                                                                                                                                          | (CAS-No.) 56-81-5     | 3 - 5     | Not classified                               |
| 1,3'-Bipyridinium, 3-carboxy-5'-[2-(2-carboxy-4-sulfophenyl)diazanyl]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, inner salt, lithium sodium salt | (CAS-No.) 388582-18-1 | 3.5 - 4.5 | Acute Tox. 4 (Oral), H302                    |
| 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate                                                                                                  | (CAS-No.) 9014-85-1   | 0.5 - 1   | Eye Dam. 1, H318<br>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 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 : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

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

- Symptoms/effects : May cause damage to organs (through prolonged or repeated exposure).
- Symptoms/effects after inhalation : Inhalation may cause: irritation, cough, shortness of breath.
- Symptoms/effects after skin contact : No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin contact.
- Symptoms/effects after eye contact : Causes serious eye irritation.
- Symptoms/effects after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

All treatments should be based on observed signs and symptoms of distress in the patient.

### SECTION 5: Fire-fighting measures

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

- Suitable extinguishing media : carbon dioxide (CO<sub>2</sub>), powder, alcohol-resistant foam, hazy water.
- Unsuitable extinguishing media : None known.

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

- Fire hazard : No specific fire or explosion hazard.
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known.

#### 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/flame resistant/retardant clothing. Use 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 vapor and mist.

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

- Protective equipment : Avoid contact with skin and eyes. Wear suitable gloves : butyl rubber gloves or natural rubber gloves.

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Emergency procedures : Evacuate unnecessary personnel. Stop leak, if possible without risk.

### 6.1.2. For emergency responders

Protective equipment : Avoid all eye and skin contact and do not breathe vapor and mist. Wear suitable protective clothing and gloves : butyl rubber gloves or natural rubber. Use eye protection 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 13: disposal information. Section 8: personal protective equipment. Section 7: safe handling.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Hygiene measures : Wash hands 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

|                                                                                                                                                                        |                                     |                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------|
| <b>2-pyrrolidone (616-45-5)</b>                                                                                                                                        |                                     |                                                                           |
| Not applicable                                                                                                                                                         |                                     |                                                                           |
| <b>2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)</b>                                                                                                    |                                     |                                                                           |
| Not applicable                                                                                                                                                         |                                     |                                                                           |
| <b>1,3'-Bipyridinium, 3-carboxy-5'-[2-(2-carboxy-4-sulfophenyl)diazenyl]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, inner salt, lithium sodium salt (388582-18-1)</b> |                                     |                                                                           |
| Not applicable                                                                                                                                                         |                                     |                                                                           |
| <b>Glycerol (56-81-5)</b>                                                                                                                                              |                                     |                                                                           |
| ACGIH                                                                                                                                                                  | ACGIH TWA (mg/m <sup>3</sup> )      | 10 mg/m <sup>3</sup>                                                      |
| OSHA                                                                                                                                                                   | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 15 mg/m <sup>3</sup> (total)<br>5 mg/m <sup>3</sup> (respirable fraction) |
| <b>Water (7732-18-5)</b>                                                                                                                                               |                                     |                                                                           |
| Not applicable                                                                                                                                                         |                                     |                                                                           |
| <b>Ethylene glycol (107-21-1)</b>                                                                                                                                      |                                     |                                                                           |
| ACGIH                                                                                                                                                                  | Local name                          | Ethylene glycol                                                           |
| ACGIH                                                                                                                                                                  | ACGIH Ceiling (mg/m <sup>3</sup> )  | 100 mg/m <sup>3</sup>                                                     |
| ACGIH                                                                                                                                                                  | ACGIH Ceiling (ppm)                 | 39.4 ppm                                                                  |
| ACGIH                                                                                                                                                                  | 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

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. butyl rubber gloves or natural rubber gloves.

#### Eye protection:

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

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### Respiratory protection:

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

### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|                                               |                                         |
|-----------------------------------------------|-----------------------------------------|
| Physical state                                | : Liquid                                |
| Appearance                                    | : Semi-opaque. Yellow liquid.           |
| Color                                         | : Yellow                                |
| Odor                                          | : characteristic                        |
| Odor threshold                                | : No data available                     |
| pH                                            | : 6.5 - 7.5                             |
| Melting point                                 | : No data available                     |
| Freezing point                                | : No data available                     |
| Boiling point                                 | : > 90 °C                               |
| Flash point                                   | : > 93.3 °C (Pensky-Martens closed cup) |
| Relative evaporation rate (butyl acetate=1)   | : No data available                     |
| Flammability (solid, gas)                     | : Non flammable.                        |
| Vapor pressure                                | : No data available                     |
| Relative vapor density at 20 °C               | : > 1 (Air = 1)                         |
| Relative density                              | : 1 - 1.1                               |
| Relative density of saturated gas/air mixture | : 1 - 1.1                               |
| Solubility                                    | : Soluble in water.                     |
| Log Pow                                       | : No data available                     |
| Auto-ignition temperature                     | : No data available                     |
| Decomposition temperature                     | : No data available                     |
| Viscosity, kinematic                          | : No data available                     |
| Viscosity, dynamic                            | : 1.6 - 2.1 mPa·s                       |
| Explosive limits                              | : No data available                     |
| Explosive properties                          | : No data available                     |
| Oxidizing 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

Do not store with incompatible materials.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| <b>2-pyrrolidone (616-45-5)</b> |                        |
|---------------------------------|------------------------|
| LD50 oral rat                   | 5000 mg/kg             |
| LD50 dermal rabbit              | > 2000 mg/kg           |
| LC50 inhalation rat (mg/l)      | > 20 mg/l/4h           |
| ATE US (oral)                   | 5000 mg/kg body weight |

| <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 |
| LC50 inhalation rat (mg/l)                                          | > 2 mg/l/4h  |

| <b>1,3'-Bipyridinium, 3-carboxy-5'-[2-(2-carboxy-4-sulfophenyl)diazenyl]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, inner salt, lithium sodium salt (388582-18-1)</b> |                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| ATE US (oral)                                                                                                                                                          | 500 mg/kg body weight |

| <b>Glycerol (56-81-5)</b> |                        |
|---------------------------|------------------------|
| LD50 oral rat             | 5570 mg/kg             |
| ATE US (oral)             | 5570 mg/kg body weight |

| <b>Ethylene glycol (107-21-1)</b> |                       |
|-----------------------------------|-----------------------|
| LD50 dermal rat                   | > 3500 mg/kg (mouse)  |
| LC50 inhalation rat (mg/l)        | > 2.5 mg/l/4h         |
| ATE US (oral)                     | 500 mg/kg body weight |

Skin corrosion/irritation : Not classified  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : May damage fertility or the unborn child.  
Specific target organ toxicity – single exposure : Not classified  
Specific target organ toxicity – repeated exposure : May cause damage to organs through prolonged or repeated exposure.

| <b>2-pyrrolidone (616-45-5)</b> |                                                                     |
|---------------------------------|---------------------------------------------------------------------|
| NOAEL (oral, rat, 90 days)      | 207 mg/kg bodyweight/day The kidneys were the most affected organs. |

| <b>2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)</b> |                       |
|---------------------------------------------------------------------|-----------------------|
| NOAEL (subacute, oral, animal/male, 28 days)                        | 200 mg/kg body weight |

| <b>Ethylene glycol (107-21-1)</b> |                                 |
|-----------------------------------|---------------------------------|
| 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

Likely routes of exposure : Inhalation. Skin and eye contact.

Symptoms/effects : May cause damage to organs (through prolonged or repeated exposure).

Symptoms/effects after inhalation : Inhalation may cause: irritation, cough, shortness of breath.

Symptoms/effects after skin contact : No significant signs or symptoms indicative of any health hazard are expected to occur as a result of skin contact.

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

Symptoms/effects after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

| <b>2-pyrrolidone (616-45-5)</b>                                     |                                               |
|---------------------------------------------------------------------|-----------------------------------------------|
| LC50 fish 1                                                         | > 4600 (4600 - 10000) mg/l 96 hr. Danio rerio |
| EC50 Daphnia 1                                                      | > 500 mg/l                                    |
| ErC50 (algae)                                                       | > 500 mg/l                                    |
| NOEC (acute)                                                        | 4640 mg/l                                     |
| <b>2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)</b> |                                               |
| LC50 fish 1                                                         | 52.5 mg/l juvenile S. maximus                 |
| EC50 Daphnia 1                                                      | 166 mg/l                                      |
| ErC50 (algae)                                                       | 15 mg/l                                       |
| NOEC chronic algae                                                  | 1 mg/l                                        |
| <b>Glycerol (56-81-5)</b>                                           |                                               |
| LC50 fish 1                                                         | 68 - 72 mg/l                                  |
| <b>Ethylene glycol (107-21-1)</b>                                   |                                               |
| LC50 fish 1                                                         | 72860 mg/l Pimephales promelas                |
| EC50 Daphnia 1                                                      | > 100 mg/l                                    |
| NOEC chronic fish                                                   | 15380 mg/l Pimephales promelas                |
| NOEC chronic crustacea                                              | 8590 mg/l Ceriodaphnia sp.                    |

#### 12.2. Persistence and degradability

| <b>VERSAPASS® DG Yellow</b>                                         |                            |
|---------------------------------------------------------------------|----------------------------|
| Persistence and degradability                                       | Not established.           |
| <b>2-pyrrolidone (616-45-5)</b>                                     |                            |
| Persistence and degradability                                       | Readily biodegradable.     |
| <b>2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)</b> |                            |
| Persistence and degradability                                       | Not readily biodegradable. |
| <b>Glycerol (56-81-5)</b>                                           |                            |
| Persistence and degradability                                       | Readily biodegradable.     |
| <b>Ethylene glycol (107-21-1)</b>                                   |                            |
| Persistence and degradability                                       | Readily biodegradable.     |
| Biodegradation                                                      | > 60 % 28 d                |

#### 12.3. Bioaccumulative potential

| <b>VERSAPASS® DG Yellow</b>                                         |                                |
|---------------------------------------------------------------------|--------------------------------|
| Bioaccumulative potential                                           | Not established.               |
| <b>2-pyrrolidone (616-45-5)</b>                                     |                                |
| Bioconcentration factor (BCF REACH)                                 | 3.16                           |
| Log Pow                                                             | - 0.32                         |
| Bioaccumulative potential                                           | Not expected to bioaccumulate. |
| <b>2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate (9014-85-1)</b> |                                |
| Bioconcentration factor (BCF REACH)                                 | < 24                           |
| Bioaccumulative potential                                           | Not expected to bioaccumulate. |
| <b>Ethylene glycol (107-21-1)</b>                                   |                                |
| Log Pow                                                             | - 1.36                         |
| Bioaccumulative potential                                           | Not expected to bioaccumulate. |

#### 12.4. Mobility in soil

No additional information available

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### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal 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.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not regulated.

### Transportation of Dangerous Goods

Not regulated.

### Transport by sea

Not regulated.

### Air transport

Not regulated.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

|                 |                  |         |
|-----------------|------------------|---------|
| Ethylene glycol | CAS-No. 107-21-1 | 9 - 10% |
|-----------------|------------------|---------|

#### 2-pyrrolidone (616-45-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

#### 1,3'-Bipyridinium, 3-carboxy-5'-[2-(2-carboxy-4-sulfophenyl)diazenyl]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, inner salt, lithium sodium salt (388582-18-1)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Subject to reporting requirements of United States SARA Section 313

EPA TSCA Regulatory Flag

T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.

CERCLA RQ

5000 lb

### 15.2. International regulations

#### CANADA

#### 2-pyrrolidone (616-45-5)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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**1,3'-Bipyridinium, 3-carboxy-5'-[2-(2-carboxy-4-sulfophenyl)diazenyl]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, inner salt, lithium sodium salt (388582-18-1)**

Not listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

## **EU-Regulations**

### **VERSAPASS® DG Yellow**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)- Directive 79/831/EEC, sixth Amendment of Directive 67/548/EEC (dangerous substances)

**1,3'-Bipyridinium, 3-carboxy-5'-[2-(2-carboxy-4-sulfophenyl)diazenyl]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, inner salt, lithium sodium salt (388582-18-1)**

Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

## **National regulations**

**1,3'-Bipyridinium, 3-carboxy-5'-[2-(2-carboxy-4-sulfophenyl)diazenyl]-1',2'-dihydro-6'-hydroxy-4'-methyl-2'-oxo-, inner salt, lithium sodium salt (388582-18-1)**

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Not listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Not listed on the Canadian Non-Domestic Substances List (NDSL).

Listed on KECI (Korean Existing Chemicals 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)

### **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)

## **15.3. US State regulations**



### **WARNING**

This product can expose you to Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| <b>Ethylene glycol (107-21-1)</b>                      |                                                             |                                                                     |                                                                   |                                  |                                     |
|--------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|-------------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List  | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
| No                                                     | Yes                                                         | No                                                                  | No                                                                |                                  | 8700 µg/day (oral)                  |
| U.S. - California - Proposition 65 - Other information |                                                             | Ingestion                                                           |                                                                   |                                  |                                     |



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### 2-pyrrolidone (616-45-5)

U.S. - Pennsylvania - RTK (Right to Know) List

### Glycerol (56-81-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

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

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Revision date : 04/04/2019

Other information : None.

Full text of H-phrases:

|                     |                                                                   |
|---------------------|-------------------------------------------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4                                  |
| 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                      |
| Eye Irrit. 2A       | Serious eye damage/eye irritation Category 2A                     |
| Repr. 1B            | Reproductive toxicity Category 1B                                 |
| 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                                     |
| H360                | May damage fertility or the unborn child                          |
| H373                | May cause damage to organs through prolonged or repeated exposure |
| H412                | Harmful to aquatic life with long lasting effects                 |

Abbreviations and acronyms:

|                                                                                             |
|---------------------------------------------------------------------------------------------|
| ATE: Acute Toxicity Estimate                                                                |
| CAS (Chemical Abstracts Service) number                                                     |
| DNEL: Derived No Effect Level                                                               |
| EC50: Environmental Concentration associated with a response by 50% of the test population. |
| GHS: Globally Harmonized System (of Classification and Labeling of Chemicals)               |
| IPPC: Integrated Pollution Prevention and Control                                           |
| LD50: Lethal Dose for 50% of the test population                                            |
| NOEC: No Observable Effect Concentration                                                    |
| PNEC: Predicted No Effect Level                                                             |
| OSHA: Occupational Safety & Health Administration                                           |
| PBT: Persistent, Bioaccumulative, Toxic                                                     |
| STEL: Short Term Exposure Limits                                                            |
| TSCA: Toxic Substances Control Act                                                          |
| TWA: Time Weighted Average                                                                  |

# VERSAPASS® DG Yellow

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Indication of changes:

| Section | Changed item                      | Change   | Comments |
|---------|-----------------------------------|----------|----------|
| 2.1     | GHS-US classification             | Modified |          |
| 2.1     | Signal word (GHS US)              | Modified |          |
| 2.1     | Precautionary statements (GHS US) | Modified |          |
| 2.1     | Hazard statements (GHS US)        | Modified |          |

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*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.*