

Issuing date : 29-Mar-2013  
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SDS # : ICW 0718 R - 01 EU EN  
Version : 02

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

### 1.1. Product Identifier

**Product name** Canon FINE Cartridge PG-545  
**Product Code(s)** 8287B

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

**Use** Ink for Ink Jet Printer

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

#### Supplier

Importer  
Canon Europa N.V.  
Bovenkerkerweg 59, 1185XB Amstelveen, The Netherlands  
+31 20 5458545, +31 20 5458222  
www.canon-europe.com, ceu-Reach@canon-europe.com

#### Manufacturer

Canon Inc.  
30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

### 1.4. Emergency Telephone Number

|                  |                                 |                       |                                   |
|------------------|---------------------------------|-----------------------|-----------------------------------|
| <b>Austria</b>   | +43 (0) 1 406 43 43             | <b>Belgium</b>        | +32 (0) 70 245 245                |
| <b>Bulgaria</b>  | 112                             | <b>Croatia</b>        | +385 (0)1-23-48-342               |
| <b>Cyprus</b>    | 1401                            | <b>Czech Republic</b> | +420 224919293                    |
| <b>Denmark</b>   | +45 82 12 12 12 <sup>[*1]</sup> | <b>Estonia</b>        | 16662                             |
| <b>Finland</b>   | +358 (0)9 471977                | <b>France</b>         | +33 (0)1 45 42 59 59              |
| <b>Greece</b>    | +30 210 7793777                 | <b>Hungary</b>        | +36 80 20 11 99                   |
| <b>Italy</b>     | +39 (0)55 7947819               | <b>Latvia</b>         | +371 67042473                     |
| <b>Lithuania</b> | +370 687 53378                  | <b>Luxembourg</b>     | 112                               |
| <b>Malta</b>     | 112                             | <b>Netherlands</b>    | +31 (0)30-2748888 <sup>[*2]</sup> |
| <b>Poland</b>    | 112                             | <b>Portugal</b>       | +351 808 250 143                  |
| <b>Romania</b>   | +40 21 318 36 06                | <b>Slovakia</b>       | +421 2 5477 4166                  |
| <b>Slovenia</b>  | 112                             | <b>Spain</b>          | 112                               |
| <b>Sweden</b>    | 112 <sup>[*3]</sup>             | <b>United Kingdom</b> | 111 (UK only)                     |
| <b>Iceland</b>   | 112                             | <b>Liechtenstein</b>  | 145                               |
| <b>Norway</b>    | +47 22 59 13 00                 | <b>Switzerland</b>    | 145                               |

\*1 Kontakt Giftlinien på tlf.nr.: 82 12 12 12 (åbent 24 timer i døgnet). Se punkt 4 om førstehjælp.

\*2 Only for the purpose of informing medical personnel in cases of acute intoxications.

\*3 Ask for Poison Information

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Not classified

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Not classified

## **2.2. Label Elements**

### **Labelling according to Regulation (EC) No 1272/2008**

Contains 1,2-benzisothiazol-3(2H)-one.

May produce an allergic reaction.

Contains less than 30% of components with unknown hazards to the aquatic environment.

### **Hazard pictograms**

Not required

### **Signal word**

Not required

### **Hazard statements**

Not required

### **Precautionary Statements - EU (§28, 1272/2008)**

Not required

### **Other Information**

Labelling according to Regulation (EU) No 528/2012

Contains a preservative to control microbial deterioration.

## **2.3. Other Hazards**

None

## **SECTION 3: Composition/information on ingredients**

### **3.2. Mixtures**

| Chemical name | CAS-No    | EC-No     | REACH registration number | Weight % | Classification (67/548) | Indication of danger | Classification (Reg. 1272/2008) |
|---------------|-----------|-----------|---------------------------|----------|-------------------------|----------------------|---------------------------------|
| Glycerin      | 56-81-5   | 200-289-5 | None                      | 5 - 10   | None                    | None                 | None                            |
| Glycol        | CBI       | CBI       | None                      | 5 - 10   | None                    | None                 | None                            |
| Lactam        | CBI       | CBI       | None                      | 5 - 10   | None                    | None                 | None                            |
| Water         | 7732-18-5 | 231-791-2 | None                      | 60 - 80  | None                    | None                 | None                            |

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **Inhalation**

Move to fresh air. Get medical attention immediately if symptoms occur.

#### **Ingestion**

Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately if symptoms occur.

#### **Skin Contact**

Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.

#### **Eye Contact**

Flush with plenty of water. Get medical attention immediately if symptoms occur.

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

#### **Inhalation**

None under normal use. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

|                        |                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Ingestion</b>       | None under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| <b>Skin Contact</b>    | None under normal use.                                                                                 |
| <b>Eye Contact</b>     | None under normal use. May cause slight irritation.                                                    |
| <b>Chronic Effects</b> | None under normal use.                                                                                 |

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

None

## **SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Use CO<sub>2</sub>, dry chemical, or foam, Water.

**Unsuitable extinguishing media**

None

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

**Special Hazard**

None

**Hazardous combustion products**

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO)

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

None

## **SECTION 6: Accidental release measures**

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

Avoid contact with skin, eyes and clothing.

**6.2. Environmental Precautions**

Keep out of waterways.

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

Wipe up with adsorbent material (e.g. cloth, fleece).

**6.4. Reference to other sections**

None

## **SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Avoid contact with skin, eyes and clothing. Clean contaminated surface thoroughly. Use with adequate ventilation.

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

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from direct sunlight. Keep away from heat and sources of ignition.

## 7.3. Specific end uses

Ink for Ink Jet Printer. Obtain special instructions before use.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### Exposure Limits

| Chemical name       | EU OEL                                                     | Austria                        | Belgium                        | Bulgaria                                                                           | Cyprus                                                                                                                |
|---------------------|------------------------------------------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Glycerin<br>56-81-5 | None                                                       | None                           | TWA: 10 mg/m <sup>3</sup>      | None                                                                               | None                                                                                                                  |
| Chemical name       | Czech Republic                                             | Denmark                        | Finland                        | France                                                                             | Germany                                                                                                               |
| Glycerin<br>56-81-5 | TWA: 10 mg/m <sup>3</sup><br>Ceiling: 15 mg/m <sup>3</sup> | None                           | TWA: 20 mg/m <sup>3</sup>      | TWA: 10 mg/m <sup>3</sup>                                                          | DFG TWA: 50 mg/m <sup>3</sup><br>inhalable fraction<br>Ceiling / Peak: 100<br>mg/m <sup>3</sup> inhalable<br>fraction |
| Chemical name       | Greece                                                     | Hungary                        | Ireland                        | Italy                                                                              | Netherlands                                                                                                           |
| Glycerin<br>56-81-5 | TWA: 10 mg/m <sup>3</sup>                                  | None                           | TWA: 10 mg/m <sup>3</sup> mist | None                                                                               | None                                                                                                                  |
| Chemical name       | Poland                                                     | Portugal                       | Romania                        | Slovakia                                                                           | Spain                                                                                                                 |
| Glycerin<br>56-81-5 | TWA: 10 mg/m <sup>3</sup><br>aerosol                       | TWA: 10 mg/m <sup>3</sup> mist | None                           | None                                                                               | TWA: 10 mg/m <sup>3</sup> mist                                                                                        |
| Chemical name       | Sweden                                                     | United Kingdom                 | Norway                         | Switzerland                                                                        | Turkey                                                                                                                |
| Glycerin<br>56-81-5 | None                                                       | TWA: 10 mg/m <sup>3</sup> mist | None                           | TWA: 50 mg/m <sup>3</sup><br>inhalable<br>STEL: 100 mg/m <sup>3</sup><br>inhalable | None                                                                                                                  |

## 8.2. Exposure controls

**Appropriate engineering controls** None under normal use conditions.

### Individual protection measures, such as personal protective equipment

|                               |                                |
|-------------------------------|--------------------------------|
| <b>Eye/face Protection</b>    | Not required under normal use. |
| <b>Skin Protection</b>        | Not required under normal use. |
| <b>Respiratory Protection</b> | Not required under normal use. |
| <b>Thermal hazards</b>        | Not Applicable                 |

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

|                                    |                                |
|------------------------------------|--------------------------------|
| <b>Appearance</b>                  | Black ; Liquid                 |
| <b>Odor</b>                        | Slight odor                    |
| <b>Odor threshold</b>              | No data available              |
| <b>pH</b>                          | 7 - 9                          |
| <b>Melting/Freezing point (°C)</b> | No data available              |
| <b>Boiling Point/Range (°C)</b>    | No data available              |
| <b>Flash Point (°C)</b>            | None; estimated                |
| <b>Evaporation Rate</b>            | No data available              |
| <b>Flammability (solid, gas)</b>   | Not flammable; Not combustible |

|                                        |                   |
|----------------------------------------|-------------------|
| Flammability Limits in Air             |                   |
| Upper Flammability Limit               | None; estimated   |
| Lower Flammability Limit               | None; estimated   |
| Vapor pressure                         | No data available |
| Vapor Density                          | No data available |
| Relative density                       | 1.0 - 1.1         |
| Solubility(ies)                        | Water; miscible   |
| Partition coefficient: n-octanol/water | No data available |
| Autoignition Temperature (°C)          | None; estimated   |
| Decomposition Temperature (°C)         | No data available |
| Viscosity (mPa s)                      | 1 - 5             |
| Explosive properties                   | None; estimated   |
| Oxidizing properties                   | None; estimated   |

#### 9.2. Other Information

No data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

None

#### 10.2. Chemical stability

Stable

#### 10.3. Possibility of Hazardous Reactions

None

#### 10.4. Conditions to Avoid

None

#### 10.5. Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents.

#### 10.6. Hazardous Decomposition Products

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO), and/or Ammonia.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                                   |                                              |
|-----------------------------------|----------------------------------------------|
| Acute toxicity                    | No data available                            |
| Skin corrosion/irritation         | Non-irritant (Estimate) (OECD Guideline)     |
| Serious eye damage/eye irritation | Minimal irritant (Estimate) (OECD Guideline) |
| Sensitization                     | Non-sensitizer (Estimate) (OECD Guideline)   |
| Germ cell mutagenicity            | Ames test: Negative                          |
| Carcinogenicity                   | No data available                            |

|                          |                   |
|--------------------------|-------------------|
| Reproductive Toxicity    | No data available |
| STOT - single exposure   | No data available |
| STOT - repeated exposure | No data available |
| Aspiration hazard        | No data available |
| Other Information        | No data available |

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity effects

Fish, 96-Hour LC50 > 100 mg/L (Estimate) (OECD Guideline)  
Crustaceans, 48-Hour EC50 > 100 mg/L (Estimate) (OECD Guideline)  
Algae, EC50 > 100 mg/L (0-72hr), NOEC = 100 mg/L (Estimate) (OECD Guideline)  
NOEC: No Observed Effect Concentration

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).  
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of in accordance with local regulations.

## SECTION 14: Transport information

|                                      |      |
|--------------------------------------|------|
| <u>14.1. UN number</u>               | None |
| <u>14.2. UN Proper Shipping Name</u> | None |
| <u>14.3. Transport Hazard Class</u>  | None |
| <u>14.4. Packing Group</u>           | None |

**14.5. Environmental Hazards** No special environmental precautions required.

**14.6. Special Precautions for users** None

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable

## SECTION 15: Regulatory information

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

|                                 |               |
|---------------------------------|---------------|
| (EC) No 1907/2006 Authorisation | Not regulated |
| (EC) No 1907/2006 Restriction   | Not regulated |
| (EC) No 1005/2009               | Not regulated |
| (EC) No 850/2004                | Not regulated |
| (EU) No 649/2012                | Not regulated |
| Other Information               | None          |

### 15.2. Chemical safety assessment

None

## SECTION 16: Other information

### Key literature references and sources for data

- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- EU Directive 1999/45/EC
- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EU) No 649/2012

### Key or legend to abbreviations and acronyms used in the safety data sheet

- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern
- IARC: International Agency for Research on Cancer
- EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU.
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- CBI: Confidential Business Information

**Issuing date :** 29-Mar-2013

**Revision date :** 20-Mar-2015

**Revision Note** Entirely revised

This safety data sheet (SDS) is supplied voluntarily.

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Issuing date : 29-Mar-2013  
Revision date : 20-Mar-2015

SDS # : ICW 0719 R - 01 EU EN  
Version : 02

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

### 1.1. Product Identifier

**Product name** Canon FINE Cartridge CL-546  
**Product Code(s)** 8289B

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

**Use** Ink for Ink Jet Printer

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

#### Supplier

Importer  
Canon Europa N.V.  
Bovenkerkerweg 59, 1185XB Amstelveen, The Netherlands  
+31 20 5458545, +31 20 5458222  
www.canon-europe.com, ceu-Reach@canon-europe.com

#### Manufacturer

Canon Inc.  
30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

### 1.4. Emergency Telephone Number

|                  |                                 |                       |                                   |
|------------------|---------------------------------|-----------------------|-----------------------------------|
| <b>Austria</b>   | +43 (0) 1 406 43 43             | <b>Belgium</b>        | +32 (0) 70 245 245                |
| <b>Bulgaria</b>  | 112                             | <b>Croatia</b>        | +385 (0)1-23-48-342               |
| <b>Cyprus</b>    | 1401                            | <b>Czech Republic</b> | +420 224919293                    |
| <b>Denmark</b>   | +45 82 12 12 12 <sup>[*1]</sup> | <b>Estonia</b>        | 16662                             |
| <b>Finland</b>   | +358 (0)9 471977                | <b>France</b>         | +33 (0)1 45 42 59 59              |
| <b>Greece</b>    | +30 210 7793777                 | <b>Hungary</b>        | +36 80 20 11 99                   |
| <b>Italy</b>     | +39 (0)55 7947819               | <b>Latvia</b>         | +371 67042473                     |
| <b>Lithuania</b> | +370 687 53378                  | <b>Luxembourg</b>     | 112                               |
| <b>Malta</b>     | 112                             | <b>Netherlands</b>    | +31 (0)30-2748888 <sup>[*2]</sup> |
| <b>Poland</b>    | 112                             | <b>Portugal</b>       | +351 808 250 143                  |
| <b>Romania</b>   | +40 21 318 36 06                | <b>Slovakia</b>       | +421 2 5477 4166                  |
| <b>Slovenia</b>  | 112                             | <b>Spain</b>          | 112                               |
| <b>Sweden</b>    | 112 <sup>[*3]</sup>             | <b>United Kingdom</b> | 111 (UK only)                     |
| <b>Iceland</b>   | 112                             | <b>Liechtenstein</b>  | 145                               |
| <b>Norway</b>    | +47 22 59 13 00                 | <b>Switzerland</b>    | 145                               |

\*1 Kontakt Giftlinien på tlf.nr.: 82 12 12 12 (åbent 24 timer i døgnet). Se punkt 4 om førstehjælp.

\*2 Only for the purpose of informing medical personnel in cases of acute intoxications.

\*3 Ask for Poison Information

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Not classified

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Not classified

## 2.2. Label Elements

### Labelling according to Regulation (EC) No 1272/2008

Contains 1,2-benzisothiazol-3(2H)-one.

May produce an allergic reaction.

Contains less than 30% of components with unknown hazards to the aquatic environment.

### Hazard pictograms

Not required

### Signal word

Not required

### Hazard statements

Not required

### Precautionary Statements - EU (§28, 1272/2008)

Not required

### Other Information

Labelling according to Regulation (EU) No 528/2012

Contains a preservative to control microbial deterioration.

## 2.3. Other Hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Chemical name                                                                                                              | CAS-No    | EC-No     | REACH registration number | Weight % | Classification (67/548) | Indication of danger | Classification (Reg. 1272/2008) |
|----------------------------------------------------------------------------------------------------------------------------|-----------|-----------|---------------------------|----------|-------------------------|----------------------|---------------------------------|
| Glycerin                                                                                                                   | 56-81-5   | 200-289-5 | None                      | 5 - 10   | None                    | None                 | None                            |
| Ethylene urea                                                                                                              | 120-93-4  | 204-436-4 | None                      | 1 - 5    | Xi; R36                 | Xi - Irritant        | Eye Irrit. 2 (H319)             |
| Poly(oxy-1,2-ethane diyl), .alpha.,.alpha.'-[1,4-dimethyl-1,4-bis(2-methylpropyl)-2-but yne-1,4-diyl]bis[.om ega.-hydroxy- | 9014-85-1 | None      | None                      | 0.1 - 5  | Xi; R41                 | Xi - Irritant        | Eye Dam. 1 (H318)               |
| Glycol                                                                                                                     | CBI       | CBI       | None                      | 1 - 10   | None                    | None                 | None                            |
| Substituted phthalocyanine                                                                                                 | CBI       | CBI       | None                      | 1 - 5    | None                    | None                 | None                            |
| Water                                                                                                                      | 7732-18-5 | 231-791-2 | None                      | 60 - 80  | None                    | None                 | None                            |

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

Move to fresh air. Get medical attention immediately if symptoms occur.

#### Ingestion

Rinse mouth. Drink 1 or 2 glasses of water. Get medical attention immediately if symptoms occur.

**Skin Contact** Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.

**Eye Contact** Flush with plenty of water. Get medical attention immediately if symptoms occur.

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

**Inhalation** None under normal use. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

**Ingestion** None under normal use. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Skin Contact** None under normal use.

**Eye Contact** None under normal use. May cause slight irritation.

**Chronic Effects** None under normal use.

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

None

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

**Suitable extinguishing media**  
Use CO<sub>2</sub>, dry chemical, or foam, Water.

**Unsuitable extinguishing media**  
None

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

**Special Hazard**  
None

**Hazardous combustion products**  
Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO)

#### **5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**  
None

### **SECTION 6: Accidental release measures**

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

Avoid contact with skin, eyes and clothing.

#### **6.2. Environmental Precautions**

Keep out of waterways.

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

Wipe up with adsorbent material (e.g. cloth, fleece).

#### 6.4. Reference to other sections

None

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing. Clean contaminated surface thoroughly. Use with adequate ventilation.

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

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from direct sunlight. Keep away from heat and sources of ignition.

#### 7.3. Specific end uses

Ink for Ink Jet Printer. Obtain special instructions before use.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure Limits

| Chemical name       | EU OEL                                                     | Austria                        | Belgium                        | Bulgaria                                                                           | Cyprus                                                                                                                |
|---------------------|------------------------------------------------------------|--------------------------------|--------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Glycerin<br>56-81-5 | None                                                       | None                           | TWA: 10 mg/m <sup>3</sup>      | None                                                                               | None                                                                                                                  |
| Chemical name       | Czech Republic                                             | Denmark                        | Finland                        | France                                                                             | Germany                                                                                                               |
| Glycerin<br>56-81-5 | TWA: 10 mg/m <sup>3</sup><br>Ceiling: 15 mg/m <sup>3</sup> | None                           | TWA: 20 mg/m <sup>3</sup>      | TWA: 10 mg/m <sup>3</sup>                                                          | DFG TWA: 50 mg/m <sup>3</sup><br>inhalable fraction<br>Ceiling / Peak: 100<br>mg/m <sup>3</sup> inhalable<br>fraction |
| Chemical name       | Greece                                                     | Hungary                        | Ireland                        | Italy                                                                              | Netherlands                                                                                                           |
| Glycerin<br>56-81-5 | TWA: 10 mg/m <sup>3</sup>                                  | None                           | TWA: 10 mg/m <sup>3</sup> mist | None                                                                               | None                                                                                                                  |
| Chemical name       | Poland                                                     | Portugal                       | Romania                        | Slovakia                                                                           | Spain                                                                                                                 |
| Glycerin<br>56-81-5 | TWA: 10 mg/m <sup>3</sup><br>aerosol                       | TWA: 10 mg/m <sup>3</sup> mist | None                           | None                                                                               | TWA: 10 mg/m <sup>3</sup> mist                                                                                        |
| Chemical name       | Sweden                                                     | United Kingdom                 | Norway                         | Switzerland                                                                        | Turkey                                                                                                                |
| Glycerin<br>56-81-5 | None                                                       | TWA: 10 mg/m <sup>3</sup> mist | None                           | TWA: 50 mg/m <sup>3</sup><br>inhalable<br>STEL: 100 mg/m <sup>3</sup><br>inhalable | None                                                                                                                  |

#### 8.2. Exposure controls

**Appropriate engineering controls** None under normal use conditions.

##### Individual protection measures, such as personal protective equipment

|                               |                                |
|-------------------------------|--------------------------------|
| <b>Eye/face Protection</b>    | Not required under normal use. |
| <b>Skin Protection</b>        | Not required under normal use. |
| <b>Respiratory Protection</b> | Not required under normal use. |
| <b>Thermal hazards</b>        | Not Applicable                 |

### SECTION 9: Physical and chemical properties

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

|                                        |                                |
|----------------------------------------|--------------------------------|
| Appearance                             | Cyan, Magenta, Yellow ; Liquid |
| Odor                                   | Slight odor                    |
| Odor threshold                         | No data available              |
| pH                                     | 7 - 9                          |
| Melting/Freezing point (°C)            | No data available              |
| Boiling Point/Range (°C)               | No data available              |
| Flash Point (°C)                       | None; estimated                |
| Evaporation Rate                       | No data available              |
| Flammability (solid, gas)              | Not flammable; Not combustible |
| Flammability Limits in Air             |                                |
| Upper Flammability Limit               | None; estimated                |
| Lower Flammability Limit               | None; estimated                |
| Vapor pressure                         | No data available              |
| Vapor Density                          | No data available              |
| Relative density                       | 1.0 - 1.1                      |
| Solubility(ies)                        | Water; miscible                |
| Partition coefficient: n-octanol/water | No data available              |
| Autoignition Temperature (°C)          | None; estimated                |
| Decomposition Temperature (°C)         | No data available              |
| Viscosity (mPa s)                      | 1 - 5                          |
| Explosive properties                   | None; estimated                |
| Oxidizing properties                   | None; estimated                |

### 9.2. Other Information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None

### 10.2. Chemical stability

Stable

### 10.3. Possibility of Hazardous Reactions

None

### 10.4. Conditions to Avoid

None

### 10.5. Incompatible materials

Acids, Bases, Oxidizing agents, Reducing agents.

### 10.6. Hazardous Decomposition Products

Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO), and/or Ammonia.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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|                                   |                                                                                                         |
|-----------------------------------|---------------------------------------------------------------------------------------------------------|
| Acute toxicity                    | No data available                                                                                       |
| Skin corrosion/irritation         | All colors: Non-irritant (OECD Guideline)                                                               |
| Serious eye damage/eye irritation | Cyan and Yellow:<br>Minimal irritant (OECD Guideline)<br>Magenta:<br>Moderate irritant (OECD Guideline) |
| Sensitization                     | All colors: Non-sensitizer (OECD Guideline)                                                             |
| Germ cell mutagenicity            | Ames test:<br>All colors: Negative                                                                      |
| Carcinogenicity                   | No data available                                                                                       |
| Reproductive Toxicity             | No data available                                                                                       |
| STOT - single exposure            | No data available                                                                                       |
| STOT - repeated exposure          | No data available                                                                                       |
| Aspiration hazard                 | No data available                                                                                       |
| Other Information                 | No data available                                                                                       |

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity effects**  
No data available

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).  
This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of in accordance with local regulations.

## SECTION 14: Transport information

|                                                                                       |                                                |
|---------------------------------------------------------------------------------------|------------------------------------------------|
| <b>14.1. UN number</b>                                                                | None                                           |
| <b>14.2. UN Proper Shipping Name</b>                                                  | None                                           |
| <b>14.3. Transport Hazard Class</b>                                                   | None                                           |
| <b>14.4. Packing Group</b>                                                            | None                                           |
| <b>14.5. Environmental Hazards</b>                                                    | No special environmental precautions required. |
| <b>14.6. Special Precautions for users</b>                                            | None                                           |
| <b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not Applicable                                 |

## SECTION 15: Regulatory information

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

|                                 |               |
|---------------------------------|---------------|
| (EC) No 1907/2006 Authorisation | Not regulated |
| (EC) No 1907/2006 Restriction   | Not regulated |
| (EC) No 1005/2009               | Not regulated |
| (EC) No 850/2004                | Not regulated |
| (EU) No 649/2012                | Not regulated |
| Other Information               | None          |

### 15.2. Chemical safety assessment

None

## SECTION 16: Other information

### Full text of R-phrases referred to under sections 2 and 3

R36 - Irritating to eyes  
R41 - Risk of serious damage to eyes

### Full text of H-Statements referred to under sections 2 and 3

H318 - Causes serious eye damage  
H319 - Causes serious eye irritation

### Key literature references and sources for data

- World Health Organization International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- EU Directive 1999/45/EC
- EU Regulation (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 1005/2009, (EC) No 850/2004, (EU) No 649/2012

### Key or legend to abbreviations and acronyms used in the safety data sheet

- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- SVHC: Substances of Very High Concern
- IARC: International Agency for Research on Cancer
- EU OEL: Occupational exposure limits at Community level under Directive 2004/37/EC, 98/24/EC, 91/322/EEC, 2000/39/EC, 2006/15/EC and 2009/161/EU.
- TWA: Time Weighted Average
- STEL: Short Term Exposure Limit
- CBI: Confidential Business Information

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