

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

- **1.1 Product identifier**
- **Trade name:** 2070 PG3 red violet
- **Article number:** 100000000530
- **Registration number**  
The ingredients of this product meet the criteria of the Regulation 1907/2006/EC (REACH).
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Currently no such applications are identified.
- **Application of the substance / the mixture** Ball Pen Ink
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
DOKUMENTAL GmbH & Co KG  
Woellnerstraße 26  
D-67065 Ludwigshafen  
Phone + 49(0)621/37702 321  
Fax + 49(0)621/37702 391  
www.dokumental.de
- **Further information obtainable from:**  
Technical Service & Product Safety  
Tel.: +49-621-37702 390  
E-Mail: msds@dokumental.de
- **1.4 Emergency telephone number:**  
GBK Gefahrgut Büro GmbH  
+49 (0) 6132 / 84463  
Ingelheim, Deutschland

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Eye Dam. 1                      H318 Causes serious eye damage.



GHS07

Skin Irrit. 2                      H315 Causes skin irritation.  
STOT SE 3                      H335 May cause respiratory irritation.

Aquatic Chronic 3              H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05



GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
2-phenoxyethanol  
Oleoylsarcosinic acid
- **Hazard statements**  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P261                      Avoid breathing dust/fume/gas/mist/vapours/spray.  
P305+P351+P338      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310                      Immediately call a POISON CENTER/doctor.  
P321                      Specific treatment (see on this label).  
P362+P364              Take off contaminated clothing and wash it before reuse.

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- P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

|                                                                 |                                                                                                                                  |         |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 122-99-6<br>EINECS: 204-589-7<br>Reg.nr.: 01-2119488943-21 | 2-phenoxyethanol<br>☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302; STOT SE 3, H335<br>ATE: LD50 oral: 1,394 mg/kg                     | 10-<25% |
| CAS: 107-41-5<br>EINECS: 203-489-0<br>Reg.nr.: 01-2119539582-35 | 2-methylpentane-2,4-diol<br>☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319                                                            | 10-<25% |
| CAS: 509-34-2<br>EINECS: 208-096-8<br>Reg.nr.: 01-2120756578-38 | C.I. Solvent Red 49<br>☠ Aquatic Chronic 2, H411; ☠ Acute Tox. 4, H302; Eye Irrit. 2, H319                                       | 5-<10%  |
| CAS: 110-25-8<br>EINECS: 203-749-3<br>Reg.nr.: 01-2119488991-20 | Oleoylsarcosinic acid<br>☠ Eye Dam. 1, H318; ☠ Aquatic Acute 1, H400; ☠ Acute Tox. 4, H302; Skin Irrit. 2, H315                  | 3-<5%   |
| CAS: 561-41-1<br>EINECS: 209-218-2<br>Reg.nr.: 01-2119979581-25 | C.I. Solvent Violet 8<br>Alternative CAS number: 52080-58-7<br>☠ Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 | 1-<3%   |

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:**  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

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## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
If only a short-term loading of the glove material by splashes is expected, tricoted gloves with higher wearability for the better acceptance of the users are recommended.

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  
Nitrile rubber, NBR
- **Penetration time of glove material**  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Tightly sealed goggles

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** According to product specification
- **Odour:** Product specific
- **Odour threshold:** Not determined.

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• <b>Melting point/freezing point:</b></li> <li>• <b>Boiling point or initial boiling point and boiling range</b></li> <li>• <b>Flammability</b></li> <li>• <b>Lower and upper explosion limit</b></li> <li>• <b>Lower:</b></li> <li>• <b>Upper:</b></li> <li>• <b>Flash point:</b></li> <li>• <b>Ignition temperature:</b></li> <li>• <b>Decomposition temperature:</b></li> <li>• <b>pH at 20 °C</b></li> <li>• <b>Viscosity:</b></li> <li>• <b>Kinematic viscosity</b></li> <li>• <b>Dynamic at 20 °C:</b></li> <li>• <b>Solubility</b></li> <li>• <b>water:</b></li> <li>• <b>Partition coefficient n-octanol/water (log value)</b></li> <li>• <b>Vapour pressure at 20 °C:</b></li> <li>• <b>Density and/or relative density</b></li> <li>• <b>Density at 20 °C:</b></li> <li>• <b>Relative density</b></li> <li>• <b>Vapour density</b></li> </ul> | <p>Undetermined.</p> <p>185 °C (57-55-6 Propylene glycol)</p> <p>Not applicable.</p> <p>1 Vol % (107-41-5 2-methylpentane-2,4-diol)</p> <p>12.6 Vol % (57-55-6 Propylene glycol)</p> <p>94 °C (107-41-5 2-methylpentane-2,4-diol)</p> <p>260 °C (107-41-5 2-methylpentane-2,4-diol)</p> <p>Not determined.</p> <p>6.5</p> <p>Not determined.</p> <p>16,000 mPas</p> <p>Not miscible or difficult to mix.</p> <p>Not determined.</p> <p>0.11 hPa (57-55-6 Propylene glycol)</p> <p>1.1 g/cm<sup>3</sup></p> <p>Not determined.</p> <p>Not determined.</p> |
| <ul style="list-style-type: none"> <li>• <b>9.2 Other information</b></li> <li>• <b>Appearance:</b></li> <li>• <b>Form:</b></li> <li>• <b>Important information on protection of health and environment, and on safety.</b></li> <li>• <b>Auto-ignition temperature:</b></li> <li>• <b>Explosive properties:</b></li> <li>• <b>Solvent content:</b></li> <li>• <b>Organic solvents:</b></li> <li>• <b>Solids content:</b></li> <li>• <b>Change in condition</b></li> <li>• <b>Evaporation rate</b></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   | <p>The physical and chemical properties given in Section 9.1 are rough data only, which are partially derived from the component's data of the mixture. These data are no binding product specifications.</p> <p>Fluid</p> <p>-</p> <p>Product is not selfigniting.</p> <p>Not determined.</p> <p>50.5 %</p> <p>44.0 %</p> <p>Not determined.</p>                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• <b>Information with regard to physical hazard classes</b></li> <li>• <b>Explosives</b></li> <li>• <b>Flammable gases</b></li> <li>• <b>Aerosols</b></li> <li>• <b>Oxidising gases</b></li> <li>• <b>Gases under pressure</b></li> <li>• <b>Flammable liquids</b></li> <li>• <b>Flammable solids</b></li> <li>• <b>Self-reactive substances and mixtures</b></li> <li>• <b>Pyrophoric liquids</b></li> <li>• <b>Pyrophoric solids</b></li> <li>• <b>Self-heating substances and mixtures</b></li> <li>• <b>Substances and mixtures, which emit flammable gases in contact with water</b></li> <li>• <b>Oxidising liquids</b></li> <li>• <b>Oxidising solids</b></li> <li>• <b>Organic peroxides</b></li> <li>• <b>Corrosive to metals</b></li> <li>• <b>Desensitised explosives</b></li> </ul>                                                          | <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p> <p>none</p>                                                                                                                                                                                                                                                                                                                                              |

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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## SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

### LD/LC50 values relevant for classification:

509-34-2 C.I. Solvent Red 49

Oral LD50 1,830 mg/kg (rat)

110-25-8 Oleoylsarcosinic acid

Oral LD50 9,200 mg/kg (rat)

- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure May cause respiratory irritation.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards

### Endocrine disrupting properties

None of the ingredients is listed.

## SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Remark: Harmful to fish
- Additional ecological information:
- General notes:  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Harmful to aquatic organisms

## SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

### European waste catalogue

|           |                                                                                                                                                             |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 08 00 00  | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 01 00  | wastes from MFSU and removal of paint and varnish                                                                                                           |
| 08 01 13* | sludges from paint or varnish containing organic solvents or other hazardous substances                                                                     |

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

## SECTION 14: Transport information

- 14.1 UN number or ID number
- ADR, ADN, IMDG, IATA not applicable
- 14.2 UN proper shipping name
- ADR, ADN, IMDG, IATA not applicable
- 14.3 Transport hazard class(es)
- ADR, ADN, IMDG, IATA
- Class not applicable

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- |                                                                |                 |
|----------------------------------------------------------------|-----------------|
| • 14.4 Packing group                                           |                 |
| • ADR, IMDG, IATA                                              | not applicable  |
| • 14.5 Environmental hazards:                                  | Not applicable. |
| • 14.6 Special precautions for user                            | Not applicable. |
| • 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| • UN "Model Regulation":                                       | not applicable  |

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148

- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- National regulations:

- Technical instructions (air):

| Class | Share in % |
|-------|------------|
| NK    | 50-<75     |

- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

- Date of previous version: 22.02.2021

- Version number of previous version: 1

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity - Category 4  
Skin Irrit. 2: Skin corrosion/irritation - Category 2

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Eye Dam. 1: Serious eye damage/eye irritation - Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation - Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

· **\* Data compared to the previous version altered.**

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