

Safety data sheet

according to 1907/2006/EC, Article 31

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

- **1.1 Product identifier**
- **Trade name:** 0239 PG3 black
- **Article number:** 100000000570
- **Registration number**
The ingredients of this ink have been pre-registered according to 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 Schreibfarben
Woellnerstraße 26
D-67065 Ludwigshafen
Phone + 49(0)621/5402321
Fax + 49(0)621/5402391
www.dokumental.de
- **Further information obtainable from:**
Technical Service, Dr. B. Polzin
Tel.: +49-621-5402322
Mobile +49-1726204412
E-Mail: bernd.polzin@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

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R22: Harmful if swallowed.



Xi; Irritant

R38-41: Irritating to skin. Risk of serious damage to eyes.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **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:**

C. I. Solvent Black 46

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 2-Phenoxyethanol
 Phosphoric acid mono-bis-(2-ethylhexyl)-ester
 Benzyl alcohol

Hazard statements

 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.

Precautionary statements

 P280 Wear protective gloves/protective clothing/eye protection/face 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.
 P310 Immediately call a POISON CENTER/doctor.
 P321 Specific treatment (see on this label).
 P362 Take off contaminated clothing and wash before reuse.
 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 Chemical characterisation: Mixtures

Mixture of the following substances, containing non-hazardous substances and colouring agents.

 • **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

| | | |
|--------------------------------------|---|--------|
| CAS: 122-99-6 EINECS: 204-589-7 | 2-Phenoxyethanol Xn R22; Xi R36 Acute Tox. 4, H302; Eye Irrit. 2, H319 | 25-50% |
| CAS: 65113-55-5 EINECS: 265-449-9 | C. I. Solvent Black 46 Xn R22; Xi R41 Eye Dam. 1, H318; Acute Tox. 4, H302 | 25-50% |
| CAS: 100-51-6 EINECS: 202-859-9 | Benzyl alcohol Xn R20/22 Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319 | 10-25% |
| CAS: 12645-31-7 EINECS: 235-741-0 | Phosphoric acid mono-bis-(2-ethylhexyl)-ester C R35 Skin Corr. 1C, H314 | ≤ 2,5% |

 • **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures
4.1 Description of first aid measures
General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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.
 Immediately rinse with water.

 • **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

 • **After swallowing:** Call for a doctor immediately.

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:** Use fire extinguishing methods suitable to surrounding conditions.

 • **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:** Do not allow to enter sewers/ surface or ground water.

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- **6.3 Methods and material for containment and cleaning up:**
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Dispose contaminated material as waste according to item 13.
 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.

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:** None.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **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**
- **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.
- **Protection of hands:**



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

- **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.
- **Penetration time of glove material**
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

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SECTION 9: Physical and chemical properties

| | | | | | |
|---|--|------------------------------|-----------------------------------|------------------------------|------------------------------------|
| <ul style="list-style-type: none"> • 9.1 Information on basic physical and chemical properties • General Information • Appearance: <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">Form:</td> <td>Fluid</td> </tr> <tr> <td style="padding-left: 20px;">Colour:</td> <td>According to product specification</td> </tr> </table> • Odour: Product specific • Odour threshold: Not determined. | | Form: | Fluid | Colour: | According to product specification |
| Form: | Fluid | | | | |
| Colour: | According to product specification | | | | |
| <ul style="list-style-type: none"> • Important information on protection of health and environment, and on safety. <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">-</td> <td>-</td> </tr> <tr> <td style="padding-left: 20px;">-</td> <td>-</td> </tr> </table> | | - | - | - | - |
| - | - | | | | |
| - | - | | | | |
| • pH-value at 20 °C: | 6,5 | | | | |
| <ul style="list-style-type: none"> • Change in condition <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">Melting point/Melting range:</td> <td>Undetermined.</td> </tr> <tr> <td style="padding-left: 20px;">Boiling point/Boiling range:</td> <td>205 °C</td> </tr> </table> | | Melting point/Melting range: | Undetermined. | Boiling point/Boiling range: | 205 °C |
| Melting point/Melting range: | Undetermined. | | | | |
| Boiling point/Boiling range: | 205 °C | | | | |
| • Flash point: | 101 °C | | | | |
| • Flammability (solid, gaseous): | Not applicable. | | | | |
| • Ignition temperature: | 435 °C | | | | |
| • Decomposition temperature: | Not determined. | | | | |
| • Self-igniting: | Product is not selfigniting. | | | | |
| • Danger of explosion: | Not determined. | | | | |
| <ul style="list-style-type: none"> • Explosion limits: <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">Lower:</td> <td>1,3 Vol %</td> </tr> <tr> <td style="padding-left: 20px;">Upper:</td> <td>13,0 Vol %</td> </tr> </table> | | Lower: | 1,3 Vol % | Upper: | 13,0 Vol % |
| Lower: | 1,3 Vol % | | | | |
| Upper: | 13,0 Vol % | | | | |
| • Vapour pressure at 20 °C: | 0,1 hPa | | | | |
| • Density at 20 °C: | 1,15 g/cm ³ | | | | |
| • Relative density | Not determined. | | | | |
| • Vapour density | Not determined. | | | | |
| • Evaporation rate | Not determined. | | | | |
| <ul style="list-style-type: none"> • Solubility in / Miscibility with water: <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">-</td> <td>Not miscible or difficult to mix.</td> </tr> </table> | | - | Not miscible or difficult to mix. | | |
| - | Not miscible or difficult to mix. | | | | |
| • Partition coefficient (n-octanol/water): | Not determined. | | | | |
| <ul style="list-style-type: none"> • Viscosity: <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">Dynamic at 20 °C:</td> <td>16000 mPas</td> </tr> <tr> <td style="padding-left: 20px;">Kinematic:</td> <td>Not determined.</td> </tr> </table> | | Dynamic at 20 °C: | 16000 mPas | Kinematic: | Not determined. |
| Dynamic at 20 °C: | 16000 mPas | | | | |
| Kinematic: | Not determined. | | | | |
| <ul style="list-style-type: none"> • Solvent content: <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">Organic solvents:</td> <td>44,3 %</td> </tr> </table> • Solids content: <table border="0" style="width: 100%;"> <tr> <td style="padding-left: 20px;">-</td> <td>49,7 %</td> </tr> </table> | | Organic solvents: | 44,3 % | - | 49,7 % |
| Organic solvents: | 44,3 % | | | | |
| - | 49,7 % | | | | |
| • 9.2 Other information | No further relevant information available. | | | | |

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 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.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:

| | | |
|---|------|------------------|
| • LD/LC50 values relevant for classification: | | |
| 122-99-6 2-Phenoxyethanol | | |
| Oral | LD50 | 2740 mg/kg (rat) |
- Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - on the eye: Strong irritant with the danger of severe eye injury.
- Sensitisation: No sensitising effects known.

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• **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful
Irritant

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.

• **Additional ecological information:**

• **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

• **12.5 Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **12.6 Other adverse effects** No further relevant information available.

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 dangerous substances |

• **Uncleaned packaging:**

• **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

• **14.1 UN-Number**

• **ADR, ADN, IMDG, IATA** Void

• **14.2 UN proper shipping name**

• **ADR, ADN, IMDG, IATA** Void

• **14.3 Transport hazard class(es)**

• **ADR, ADN, IMDG, IATA**

• **Class** Void

• **14.4 Packing group**

• **ADR, IMDG, IATA** Void

• **14.5 Environmental hazards:**

• **Marine pollutant:** No

• **14.6 Special precautions for user** Not applicable.

• **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

• **UN "Model Regulation":** -

SECTION 15: Regulatory information

• **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

• **National regulations:**

• **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| NK | 25-50 |

• **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

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- **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.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
R20/22 Harmful by inhalation and if swallowed.
R22 Harmful if swallowed.
R35 Causes severe burns.
R36 Irritating to eyes.
R41 Risk of serious damage to eyes.

• 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 européen sur le transport 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
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

- *** Data compared to the previous version altered.**