acc. to OSHA HCS



1 Identification

• Product identifier

- · Trade name: 0239 PG3 black
- Article number: 10000000570
 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
- · 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
- Information department: Technical Service, Dr. B. Polzin Tel.: +49-621-5402322 Mobile +49-1726204412 E-Mail: bernd.polzin@dokumental.de
- · Emergency telephone number:

24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

2 Hazard(s) identification

- \cdot Classification of the substance or mixture
 - Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Harmful if swallowed.



Irritating 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 was made according to the latest editions of international substances lists, and expanded upon from company and literature data. · Label elements · Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals. The product has been classified and marked in accordance with directives on hazardous materials. Code letter and hazard designation of product: Harmful · Hazard-determining components of labeling: 2-Phenoxyethanol · Risk phrases: Harmful if swallowed. Irritating to eyes.

• Safety phrases:

Do not breathe vapour. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water This material and its container must be disposed of as hazardous waste. • Classification system: • NFPA ratings (scale 0 - 4)



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· HMIS-ratings (scale 0 - 4)

| HEALTH | 2 |
|------------|---|
| FIRE | 1 |
| REACTIVITY | 0 |

Health = 2 Fire = 1 Reactivity = 0

Other hazards

 \cdot Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

 \cdot <code>Description:</code> Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

| - | - | |
|--------------------------------|---|----------------|
| 122-99-6 | 2-Phenoxyethanol | 25-50% |
| 100-51-6 | Benzyl alcohol | 10-25% |
| 12645-31-7 | Phosphoric acid mono-bis-(2-ethylhexyl)-ester | <u> ≤</u> 2.5% |
| Additional | information: For the wording of the listed risk phrases refer to section 16. | |

4 First-aid measures

· 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: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: Immediately call a doctor.
- Information for doctor:
- \cdot Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

5 Fire-fighting measures

- \cdot Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 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.
- 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.

7 Handling and storage

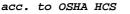
• Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

- Prevent formation of aerosols.
- \cdot Information about protection against explosions and fires: No special measures required.

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(Contd. of page 2)

- \cdot 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.
- \cdot Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

100-51-6 Benzyl alcohol (10-25%)

WEEL Long-term value: 10 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- · 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 eyes. Avoid contact with the eyes and skin.
- Breathing equipment:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- 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 $% \left({{{\left[{{{c_{1}}} \right]}}} \right)$

· 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.

- \cdot 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 protection:



Tightly sealed goggles

9 Physical and chemical properties

| Information on basic physical and chemical pro General Information | operties |
|---|------------------------------------|
| · Appearance: | |
| Form: | Fluid |
| Color: | According to product specification |
| · Odor: | Product specific |
| · Odour threshold: | Not determined. |
| Important information on protection of health environment, and on safety. | and _ |
| · pH-value at 20 °C (68 °F): | 6.5 |
| · Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 205 °C (401 °F) |
| | (Contd. on mage 4) |



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| | (Contd. of page |
|--|--|
| · Flash point: | 101 °C (214 °F) |
| · Flammability (solid, gaseous): | Not applicable. |
| · Ignition temperature: | 435 °C (815 °F) |
| · Decomposition temperature: | Not determined. |
| · Auto igniting: | Product is not selfigniting. |
| · Danger of explosion: | Not determined. |
| · Explosion limits: | |
| Lower: | 1.3 Vol % |
| Upper: | 13.0 Vol % |
| · Vapor pressure at 20 °C (68 °F): | 0.1 hPa |
| · Density: | Not determined. |
| Relative density | Not determined. |
| • Vapour density | Not determined. |
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with | |
| Water: | Not miscible or difficult to mix. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| Dynamic at 20 °C (68 °F): | 16000 mPas |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Organic solvents: | 32.8 % |
| Solids content: | 49.7 % |
| • Other information | No further relevant information available. |

10 Stability and reactivity

Reactivity

- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- \cdot Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- 122-99-6 2-Phenoxyethanol
- Oral LD50 2740 mg/kg (rat)
- · Primary irritant effect:
- · on the skin: No irritant effect.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Harmful
- Irritant

· Carcinogenic categories

| · IARC (International Agency for Research on Cancer) | |
|--|---|
| 9003-39-8 Polyvinylpolypyrrolidone | 3 |
| • NTP (National Toxicology Program) | |
| None of the ingredients is listed | |

None of the ingredients is listed.

12 Ecological information

Toxicity

· Aquatic toxicity: No further relevant information available.



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- · Persistence and degradability No further relevant information available. · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes:

Water hazard class 1 (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.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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

14 Transport information

| · UN-Number · DOT, ADR, ADN, IMDG, IATA | Void |
|--|-----------------------------|
| · UN proper shipping name · DOT, ADR, ADN, IMDG, IATA | Void |
| • Transport hazard class(es) | |
| · DOT, ADR, ADN, IMDG, IATA · Class | Void |
| Packing group DOT, ADR, IMDG, IATA | Void |
| Environmental hazards: Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code | f Not applicable. |

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture • Sara · Section 355 (extremely hazardous substances): None of the ingredient is listed. · Section 313 (Specific toxic chemical listings): None of the ingredients is listed. · TSCA (Toxic Substances Control Act): All ingredients are listed. Proposition 65 Chemicals known to cause cancer: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: None of the ingredients is listed. · DSL/NDSL (Canada) All ingredients are listed · Cancerogenity categories · EPA (Environmental Protection Agency) None of the ingredients is listed. (Contd. on page 6)



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| | (Contd. of |
|---|--|
| TLV (Three | shold Limit Value established by ACGIH) |
| None of th | ne ingredients is listed. |
| MAK (Germa | an Maximum Workplace Concentration) |
| None of th | ne ingredients is listed. |
| NIOSH-Ca (| National Institute for Occupational Safety and Health) |
| None of th | ne ingredients is listed. |
| OSHA-Ca (C | Occupational Safety & Health Administration) |
| None of tl | ne ingredients is listed. |
| Observe th | e lated hazard informations: ne general safety regulations when handling chemicals. It has been classified and marked in accordance with directives on hazardous materials. |
| Hazard syn | ubols: |
| | Harmful cermining components of labeling: |
| 2-Phenoxye Risk phras Harmful if Irritating | ses: swallowed. |
| In case of After cont | r ases: Pathe vapour. I contact with eyes, rinse immediately with plenty of water and seek medical advice. Pact with skin, wash immediately with plenty of water Parial and its container must be disposed of as hazardous waste. |
| National 1 | regulations: |
| Technical | instructions (air): |
| Class | Share in % |
| NK | 25-50 |
| | ard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. safety assessment: A Chemical Safety Assessment has not been carried out. |
| Chemical s | |

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.

- Date of preparation / last revision 03/06/2014 / 18
- \cdot * Data compared to the previous version altered.

USA