

## 1 Identification

- **Product identifier**
- **Trade name:** 0622 PG3 violet blue
- **Article number:** 100000001136
- **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  
Woellnerstraße 26  
D-67065 Ludwigshafen  
Phone + 49 (0)621/37702 321  
Fax + 49 (0)621/37702 391  
www.dokumental.de
- **Information department:**  
Technical Service, Dr. B. Polzin  
Tel.: +49-621-37702 322  
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

- **Classification of the substance or mixture**



GHS05 Corrosion

Eye Dam. 1            H318 Causes serious eye damage.



GHS07

Skin Irrit. 2            H315 Causes skin irritation.  
Skin Sens. 1            H317 May cause an allergic skin reaction.

Aquatic Acute 2        H401 Toxic to aquatic life.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05



GHS07

- **Signal word** Danger

- **Hazard-determining components of labeling:**

Oleoylsarcosinic acid  
C. I. Solvent Blue 4 < 0,1% Michler's Ketone

- **Hazard statements**

Causes skin irritation.  
Causes serious eye damage.  
May cause an allergic skin reaction.  
Toxic to aquatic life.

- **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves / eye protection / face protection.  
If on skin: Wash with plenty of water.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a poison center/doctor.  
Specific treatment (see on this label).  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Wash contaminated clothing before reuse.

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Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 3  
Fire = 1  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = \*3  
Fire = 1  
Reactivity = 0

- **Other hazards**
- **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.
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

122-99-6	2-Phenoxyethanol	10-25%
107-41-5	2-methylpentane-2,4-diol	2.5-10%
52080-58-7	C.I. Solvent Violet 8	2.5-10%
110-25-8	Oleoylsarcosinic acid	2.5-10%
6786-83-0	C. I. Solvent Blue 4 < 0,1% Michler's Ketone	≤2.5%

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

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
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.
- **Information for doctor:**
- **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

- **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).  
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.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

122-99-6	2-Phenoxyethanol	1.5 ppm
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107-41-5	2-methylpentane-2,4-diol	2.3 ppm
• <b>PAC-2:</b>		
122-99-6	2-Phenoxyethanol	16 ppm
107-41-5	2-methylpentane-2,4-diol	25 ppm
• <b>PAC-3:</b>		
122-99-6	2-Phenoxyethanol	97 ppm
107-41-5	2-methylpentane-2,4-diol	150 ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** No special measures required.
- **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.
- **Storage class:** 10
- **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:**  
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

### 107-41-5 2-methylpentane-2,4-diol (2.5-10%)

REL	Ceiling limit value: 125 mg/m <sup>3</sup> , 25 ppm
TLV	Short-term value: 50* 10** ppm Long-term value: 25* ppm *vapor **inh. fraction, aerosol only

- **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 skin.  
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  
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

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- **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

## 9 Physical and chemical properties

• <b>Information on basic physical and chemical properties</b>	
• <b>General Information</b>	
• <b>Appearance:</b>	
Form:	Fluid
Color:	According to product specification
• <b>Odor:</b>	Product specific
• <b>Odor threshold:</b>	Not determined.
• <b>Important information on protection of health and environment, and on safety.</b>	-
• <b>pH-value at 20 °C (68 °F):</b>	6.5
• <b>Change in condition</b>	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	185 °C (365 °F)
• <b>Flash point:</b>	>100 °C (>212 °F)
• <b>Flammability (solid, gaseous):</b>	Not applicable.
• <b>Ignition temperature:</b>	260 °C (500 °F)
• <b>Decomposition temperature:</b>	Not determined.
• <b>Auto igniting:</b>	Product is not selfigniting.
• <b>Danger of explosion:</b>	Not determined.
• <b>Explosion limits:</b>	
Lower:	2.6 Vol %
Upper:	12.6 Vol %
• <b>Vapor pressure at 20 °C (68 °F):</b>	0.1 hPa (0.1 mm Hg)
• <b>Density at 20 °C (68 °F):</b>	1.1 g/cm <sup>3</sup> (9.2 lbs/gal)
• <b>Relative density</b>	Not determined.
• <b>Vapor density</b>	Not determined.
• <b>Evaporation rate</b>	Not determined.
• <b>Solubility in / Miscibility with</b>	
Water:	Not miscible or difficult to mix.
• <b>Partition coefficient (n-octanol/water):</b>	Not determined.
• <b>Viscosity:</b>	
Dynamic at 20 °C (68 °F):	16,000 mPas
Kinematic:	Not determined.
• <b>Solvent content:</b>	
Organic solvents:	46.9 %
Solids content:	46.1 %
• <b>Other information</b>	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.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **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.

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· **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

122-99-6 2-Phenoxyethanol

Oral	LD50	2,740 mg/kg (rat)
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52080-58-7 C. I. Solvent Violet 8

Oral	LD50	700 mg/kg (rat)
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110-25-8 Oleoylsarcosinic acid

Oral	LD50	9,200 mg/kg (rat)
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- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant
- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

6786-83-0 C. I. Solvent Blue 4 < 0,1% Michler's Ketone

EC50 / 48h	0.025 mg/l (Daphnie)
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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 2 (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.
- **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** not applicable
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** not applicable

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· <b>Transport hazard class(es)</b>	
· DOT, ADR, ADN, IMDG, IATA	
· <b>Class</b>	not applicable
· <b>Packing group</b>	
· DOT, ADR, IMDG, IATA	not applicable
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	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):**

122-99-6 | 2-Phenoxyethanol

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **TSCA new (21st Century Act) (Substances not 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.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05



GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Oleoylsarcosinic acid  
C. I. Solvent Blue 4 < 0,1% Michler's Ketone

· **Hazard statements**

Causes skin irritation.  
Causes serious eye damage.  
May cause an allergic skin reaction.  
Toxic to aquatic life.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.

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Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• **National regulations:**

• **Technical instructions (air):**

Class	Share in %
NK	25-50

• **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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.

• **Date of preparation / last revision** 12/11/2017 / 16

• **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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

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