



1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** 600 B-S violett-blau / violet- blue
- **Registration number**
The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
- **Application of the substance / the preparation**
Ball Pen Ink
alcohol based permanent marking ink
- **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
- **Information in case of emergency:**
GBK Gefahrgut Büro GmbH
++49 (0) 6132 / 84463
Ingelheim, Deutschland



2 Hazards identification

- **Hazard description:**

Xn Harmful
N Dangerous for the environment
- **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.
R 22 Harmful if swallowed.
R 38 Irritating to skin.
R 41 Risk of serious damage to eyes.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
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	2-Phenoxyethanol	25-50%
EINECS: 204-589-7	 Xn,  Xi; R 22-36	

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CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol ☒ Xn; R 20/22	2,5-10%
CAS: 107-41-5 EINECS: 203-489-0	2-methylpentane-2,4-diol ☒ Xi; R 36/38	2,5-10%
CAS: 12645-31-7 EINECS: 235-741-0	Phosphoric acid mono-bis-(2-ethylhexyl)-ester ☒ C; R 34	2,5-10%
CAS: 84281-86-7 EINECS: 282-630-8	C. I. Solvent Violet 8 ☒ Xn, ☒ Xi, ☒ N; R 22-41-50/53	2,5-10%
CAS: 6786-83-0 EINECS: 229-851-8	C. I. Solvent Blue 4 ☒ Xn, ☒ N; R 22-50/53	2,5-10%

Additional information:

All ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH).

For the wording of the listed risk phrases refer to section 16.

4 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.

5 Fire-fighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Protective equipment: No special measures required.

6 Accidental release measures

Person-related safety precautions: Not required.

Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

Handling:

Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

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- Prevent formation of aerosols.
- Information about fire - and explosion protection:** No special measures required.
- 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.

8 Exposure controls/personal protection

- Additional information about design of technical facilities:**
No further data; see item 7.
- 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.
- 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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9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	According to product specification
Odour:	Characteristic

Important information on protection of health and environment, and on safety. Not applicable
Not applicable

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	198°C

· **Flash point:** 93°C

· **Ignition temperature:** 260°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· Explosion limits:

Lower:	1,4 Vol %
Upper:	9,0 Vol %

· **Vapour pressure at 20°C:** 0 hPa

· **Density:** Not determined.

· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

· **pH-value at 20°C:** 5

· Viscosity:

Dynamic at 20°C: 18500 mPas

· Solvent content:

Organic solvents: 38,3 %

· **Solids content:** 48,0 %

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

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

11 Toxicological information

· Acute toxicity:

· LD/LC50 values relevant for classification:

122-99-6 2-Phenoxyethanol

Oral	LD50	1980 mg/kg (Ratte)
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84281-86-7 C. I. Solvent Violet 8

Oral	LD50	700 mg/kg (Ratte)
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· Primary irritant effect:

· **on the skin:** Irritant to skin and mucous membranes.

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- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **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

12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **General notes:**
 Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Danger to drinking water if even extremely small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Toxic for aquatic organisms

13 Disposal considerations

- **Product:**
- **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.

14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 9 (M6) Miscellaneous dangerous substances and articles.
- **Danger code (Kemler):** 90
- **UN-Number:** 3082
- **Packaging group:** III
- **Hazard label** 9
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C. I. Solvent Blue 4, C. I. Solvent Violet 8)

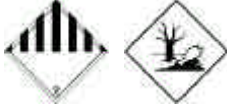
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• **Limited quantities (LQ)** LQ7

• **Maritime transport IMDG:**



• **IMDG Class:** 9
• **UN Number:** 3082
• **Label** 9
• **Packaging group:** III
• **EMS Number:** F-A,S-F
• **Marine pollutant:** Yes
Symbol (fish and tree)
• **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C. I. Solvent Blue 4, C. I. Solvent Violet 8)

• **Air transport ICAO-TI and IATA-DGR:**



• **ICAO/IATA Class:** 9
• **UN/ID Number:** 3082
• **Label** 9
• **Special marking:** Symbol (fish and tree)
• **Packaging group:** III
• **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C. I. Solvent Blue 4, C. I. Solvent Violet 8)

• **Environmental hazards:**

Product contains environmentally hazardous substances: C. I. Solvent Violet 8, C. I. Solvent Blue 4
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID; Marine pollutant

15 Regulatory information

• **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

• **Code letter and hazard designation of product:**



Xn Harmful
N Dangerous for the environment

• **Hazard-determining components of labelling:**

2-Phenoxyethanol

• **Risk phrases:**

22 Harmful if swallowed.
38 Irritating to skin.
41 Risk of serious damage to eyes.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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• **Safety phrases:**

- 2 Keep out of the reach of children.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.

• **National regulations:**

• **Technical instructions (air):**

Class	Share in %
NK	25-50

• **Waterhazard class:**

Water hazard class 3 (Self-assessment): extremely hazardous for water.

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 R-phrases**

- 20/22 Harmful by inhalation and if swallowed.
- 22 Harmful if swallowed.
- 34 Causes burns.
- 36 Irritating to eyes.
- 36/38 Irritating to eyes and skin.
- 41 Risk of serious damage to eyes.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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