*



CECTION 1.	Identification of the substance/mixture and of the company/
undertaking	9
· 1.1 Product i	dentifier
• Trade name: <u>6</u>	00 B-S violet blue
· Article numbe	pr: 10000000571
 Registration 	number
The ingredien	its of this ink have been pre-registered according to 1907/2006/EC (REACH)
	identified uses of the substance or mixture and uses advised against
-	such applications are identified
 Application o 	of the substance / the mixture Ball Pen Ink
\cdot 1.3 Details o	of the supplier of the safety data sheet
 Manufacturer/ 	
DOKUMENTAL Gm	
Woellnerstraß	
D-67065 Ludwi Phone + 49(0)	
Fax + 49(0)62	
www.dokument	
Treather infor	mation obtainable from:
	mation obtainable from: vice, Dr. B. Polzin
Tel.: +49-621	
Mobile +49-17	
	l.polzin@dokumental.de
 1.4 Emergency 	telephone number:
GBK Gefahrgut	
++49 (0) 6132	
Ingelheim, De	utschland
SECTION 2.	Hazards identification
· 2.1 Classific	ation of the substance or mixture
\cdot Classificatio	on according to Regulation (EC) No 1272/2008
\sim	
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Grist Charles	
· · · · · · · · · · · · · · · · · · ·	
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Trade name: 600 B-S violet blue

(Contd. of page 1)

- · 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.

okumental

power your pen

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous componen	its:	
CAS: 122-99-6	2-Phenoxyethanol	25-50%
EINECS: 204-589-7	🚯 Acute Tox. 4, H302; Eye Irrit. 2, H319	
CAS: 107-41-5	2-methylpentane-2,4-diol	2,5-10%
EINECS: 203-489-0	🚸 Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 100-51-6	Benzyl alcohol	2,5-10%
EINECS: 202-859-9	🐼 Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	
CAS: 84281-86-7	C. I. Solvent Violet 8	2,5-10%
EINECS: 282-630-8	🚯 Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 4, H413	
CAS: 6786-83-0	C. I. Solvent Blue 4 < 0,1% Michler's Ketone	2,5-10%
EINECS: 229-851-8	🤣 Eye Dam. 1, H318; 🐼 Skin Sens. 1B, H317	
CAS: 12645-31-7	Phosphoric acid mono-bis-(2-ethylhexyl)-ester	2,5-10%
EINECS: 235-741-0	🚸 Skin Corr. 1C, H314	
· Additional informa	tion: 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:
 - 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.
- · 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:
- CO2, 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: Do not allow to enter sewers/ surface or ground water.
- \cdot 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.
- Coo Coation & for information on Sale Halluillig.
- See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- See Section is for disposal filtormacion.

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.

(Contd. on page 3) EU



Page 3/6 Printing date 15.09.2016 Revision: 15.09.2016 Version number 51

Trade name: 600 B-S violet blue

(Contd. of page 2)

- · 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.
- · Storage class: 10
- · 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 $% \left({{{\left[{{{c_{\rm{m}}}} \right]}_{\rm{max}}}} \right)$

• 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.

- · 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

SECTION 9: Physical and chemical properties

 9.1 Information on basic physical and chemical General Information 	properties
· Appearance:	
Form:	Pasty
Colour:	Dark blue
· Odour:	Product specific
· Odour threshold:	Not determined.
 Important information on protection of health a environment, and on safety. 	nd _
· pH-value at 20 °C:	5
· Change in condition	
Melting point/Melting range:	n.d. °C
Boiling point/Boiling range:	198 °C



Trade name: 600 B-S violet blue

	(Contd. of page
· Flash point:	94 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	260 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
• Explosion limits: Lower: Upper:	1,4 Vol % 9,0 Vol %
· Vapour pressure:	Not determined.
 Density at 20 °C: Relative density Vapour density Evaporation rate 	1,15 g/cm ³ Not determined. Not determined. 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: Kinematic: Solvent content: Organic solvents: 	18500 mPas Not determined. 45,0 %
Solids content: • 9.2 Other information	44,0 % 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.

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.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

122-99-6 2-Phenoxyethanol

Oral LD50 2740 mg/kg (rat)

84281-86-7 C. I. Solvent Violet 8

- Oral LD50 700 mg/kg (rat)
- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation
- Causes serious eye damage
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- Acute effects (acute toxicity, irritation and corrosivity) Based on the guidline OECD 431 in vitro tests have been performed. These tests proved, that the ink does not show any corrosive effect to the human skin.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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 Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.



Trade name: 600 B-S violet blue

(Contd. of page 4)

· Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity:

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

- EC50 / 48h 0,025 mg/l (Daphnie)
- · 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 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.

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

SECTION 14: Transport information · 14.1 UN-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 · 14.4 Packing group · ADR, IMDG, IATA not applicable 14.5 Environmental hazards: • Marine pollutant: No \cdot 14.6 Special precautions for user Not applicable. \cdot 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 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, 28
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	25-50

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

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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Trade name: 600 B-S violet blue

(Contd. of page 5)

	information is based on our present knowledge. However, this shall not constitute a guarantee any specific product features and shall not establish a legally valid contractual relationship.
Rele	want phrases
Н302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
	Causes skin irritation.
	May cause an allergic skin reaction.
	Causes serious eye damage.
	Causes serious eye irritation.
	Harmful if inhaled.
	May cause long lasting harmful effects to aquatic life.
Abbr	eviations and acronyms:
	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
	national Transport of Dangerous Goods by Rail)
	International Civil Aviation Organisation
	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carria ngerous Goods by Road)
	International Maritime Code for Dangerous Goods
	International Air Transport Association
	Globally Harmonised System of Classification and Labelling of Chemicals
	S: European Inventory of Existing Commercial Chemical Substances
	S: European List of Notified Chemical Substances
	Chemical Abstracts Service (division of the American Chemical Society)
	Lethal concentration, 50 percent
	Lethal dose, 50 percent Persistent, Bioaccumulative and Toxic
	very Persistent and very Bioaccumulative
	Tox. 4: Acute toxicity - Category 4
	Corr. 1C: Skin corrosion/irritation - Category 1C
Skin 1	Irrit. 2: Skin corrosion/irritation - Category 2
	am. 1: Serious eye damage/eye irritation - Category 1
	rrit. 2: Serious eye damage/eye irritation - Category 2
	Sens. 1: Skin sensitisation - Category 1
	Sens. 1B: Skin sensitisation - Category 1B
-	ic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4 I ta compared to the previous version altered.