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

· 1.1 Product identifier

· Trade name: 600 B-S violet blue

· Article number: 100000000571

· Registration number

The ingredients of this product meet the criteria of the Regulation 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 Woellnerstraße 26 D-67065 Ludwigshafen Phone + 49(0)621/37702 321 Fax + 49(0)621/37702 391 www.dokumental.de

· Further information obtainable from:

Technical Service & Product Safety Tel.: +49-621-37702 390 E-Mail: msds@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

H318 Causes serious eye damage. Eye Dam. 1



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

- · 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



P310



- · Signal word Danger
- · Hazard-determining components of labelling:

2-phenoxyethanol

C.I. Solvent Blue 4 < 0,1% Michler's Ketone Phosphoric acid mono-bis-(2-ethylhexyl)-ester

· Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

· Precautionary statements

P2.61 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 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.

P321 Specific treatment (see on this label). P362+P364 Take off contaminated clothing and wash it before reuse.

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P405 Store locked up.

Dispose of contents/container in accordance with local/regional/national/international P501

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

· Dangerous components:		
CAS: 122-99-6 EINECS: 204-589-7 Reg.nr.: 01-2119488943-21	2-phenoxyethanol → Eye Dam. 1, H318; → Acute Tox. 4, H302; STOT SE 3, H335 ATE: LD50 oral: 1,394 mg/kg	25-<50%
CAS: 100-51-6 EINECS: 202-859-9 Reg.nr.: 01-2119492630-38	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	5-<10%
CAS: 107-41-5 EINECS: 203-489-0 Reg.nr.: 01-2119539582-35	2-methylpentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319	5-<10%
CAS: 561-41-1 EINECS: 209-218-2 Reg.nr.: 01-2119979581-25	C.I. Solvent Violet 8 Alternative CAS number: 52080-58-7 Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	5-<10%
CAS: 6786-83-0 EINECS: 229-851-8 Reg.nr.: 01-2119950688-22	C.I. Solvent Blue 4 < 0,1% Michler's Ketone Eye Dam. 1, H318; Skin Sens. 1B, H317	5-<10%
CAS: 12645-31-7 EINECS: 235-741-0 Reg.nr.: 01-2119896587-13	Phosphoric acid mono-bis-(2-ethylhexyl)-ester Skin Corr. 1B, H314	3-<5%

· Additional information: 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: 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.
- · 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. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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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: Keep container tightly sealed.
- · Storage class: 10
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 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
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as 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.

· Hand protection



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

· 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/face protection



Tightly sealed goggles

SECTION 9: Physical and chemical properties

- \cdot 9.1 Information on basic physical and chemical properties
- · General Information
- · Physical state
- · Colour:
- · Odour threshold:

Fluid

According to product specification

Product specific

Not determined.

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(Contd. of page 3) · Melting point/freezing point: Undetermined. · Boiling point or initial boiling point and 198.5 °C (107-41-5 2-methylpentane-2,4-diol) boiling range · Flammability Not applicable. · Lower and upper explosion limit · Lower: 1.4 Vol % · Upper: 9 Vol % 121 °C (122-99-6 2-phenoxyethanol) · Flash point: · Ignition temperature: 260 °C (107-41-5 2-methylpentane-2,4-diol) · Decomposition temperature: Not determined. · pH at 20 °C Viscosity: · Kinematic viscosity Not determined. · Dynamic at 20 °C: 18,500 mPas · Solubility · water: Not miscible or difficult to mix. · Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure at 20 °C: 0.04 hPa (122-99-6 2-phenoxyethanol) · Density and/or relative density · Density at 20 °C: 1.1 g/cm3 · Relative density Not determined. · Vapour density Not determined. · 9.2 Other information 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. · Appearance: · Form: Fluid · Important information on protection of health and environment, and on safety. Auto-ignition temperature: Product is not selfigniting. · Explosive properties: Not determined. · Solvent content: · Organic solvents: 45.0 % · Solids content: 44.0 % · Change in condition · Evaporation rate Not determined. · Information with regard to physical hazard classes · Explosives none Flammable gases none · Aerosols none · Oxidising gases none · Gases under pressure · Flammable liquids none · Flammable solids none · Self-reactive substances and mixtures none · Pyrophoric liquids none · Pyrophoric solids none · Self-heating substances and mixtures none · Substances and mixtures, which emit flammable gases in contact with water none Oxidising liquids none · Oxidising solids none · Organic peroxides none · Corrosive to metals none · Desensitised explosives

none

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.
- \cdot 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.

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SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

100-51-6 Benzyl alcohol

Oral	LD50	1,620 mg/kg	(rat)
Dermal	LD50	1,620 mg/kg 2,000 mg/kg	(rbt)
Inhalative	LC50/4 h	>4.178 mg/l	(rat)

- Skin corrosion/irritation Causes skin irritation.
- Serious eve damage/irritation Causes serious eve damage.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · 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 May cause respiratory irritation.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · 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.

- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

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.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · 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.

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 or ID 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:	Not applicable.

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(Contd. of page 5) · 14.6 Special precautions for user Not applicable. · 14.7 Maritime transport in bulk according to IMO instruments Not applicable. · UN "Model Regulation": not applicable

SECTION 15: Regulatory information

- \cdot 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.
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) 561-41-1 C.I. Solvent Violet 8
 - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
 - DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- · 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.

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.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H332 Harmful if inhaled.
 - H335 May cause respiratory irritation.
 - H412 Harmful to aquatic life with long lasting effects.
- Date of previous version: 22.02.2021
- · 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 relatif au transport international 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

ELINGS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)

LCSO: Lethal concentration, 50 percent LDSO: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic VPVB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4

Skin Corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

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Skin Sens. 1: Skin sensitisation - Category 1
Skin Sens. 1B: Skin sensitisation - Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

· * Data compared to the previous version altered.