

Safety Data Sheet
Regulation(EC) No.1907/2006,1272/2008

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

Product identifier

Trade name: Ball pen ink (blue)

Relevant identified uses of the substance or mixture and uses advised against

Application of the substance/the mixture: Writing

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Further information obtainable from:

Emergency telephone number:

2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

Acute Tox. 4 , H302;Harmful if swallowed.

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

Eye Irrit. 2.H319 Causes serious eye irritation.

Aquatic Chronic 3. H412 harmful to aquatic life with long lasting effects.

Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to Regulation (EC) No 1272/2008.

Hazard pictograms GHS07

Signal word warning

Hazard statements

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

• Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P405 Store locked up.

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

• Additional information:

Important! This product contains substance that is of restricted use under Annex XVII of Regulation (EC) No. 1907/2006. For details, please refer to Section 15 and 16 of this Safety Data Sheet.

• Other hazards Not applicable.

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

3: Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**

Mixture: consisting of the following components.

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

| Components: | | |
|----------------------------------|--|-------|
| CAS: 100-51-6 EC: 202-859-9 | Benzyl alcohol | 15,0% |
| | ⚠ Acute Tox. 4, H302; ⚠ Acute Tox. 4, H332 | |
| CAS: 122-99-6 EC: 204-589-7 | 2-Phenoxyethanol | 15,0% |
| | ⚠ Acute Tox. 4, H302; ⚠ Eye Irrit. 2, H319; | |
| CAS: 57-55-6 EC: 200-338-0 | propane-1, 2-diol | 9,0% |
| | no hazards have been classified. | |
| CAS: 25054-06-2 EC: 607-515-5 | Formaldehyde, polymer with cyclohexanone | 26,0% |
| | no hazards have been classified. | |
| CAS: 61788-97-4 EC: 612-377-4 | Epoxy resin | 11,0% |
| | ⚠ Skin Irrit. 2.H315; ⚠ Skin Sens. 1 H317 ⚠ Eye Irrit. 2, H319; | |
| | ⚠ Aquatic Chronic 2 .H411 | |
| CAS: 9003-39-8 EC: 618-363-4 | Polyvinylpyrrolidone (PVP) | 1,0% |
| | no hazards have been classified. | |
| CAS: 112-80-1 EC: 204-007-1 | oleic acid Elainic acid cis-9-Octadecenoic acid | 1,0% |
| | ⚠ Skin Irrit. 2.H315; ⚠ Eye Irrit. 2, H319; | |
| CAS: 102-71-6 EC: 203-049-8 | 2,2',2''-nitrilotriethanol tris(Hydroxyethyl)amine | 3% |
| | ⚠ Skin Irrit. 2.H315; ⚠ Eye Irrit. 2, H319; | |
| CAS: 1328-51-4 EC: 215-523-4 | Solvent blue 38 | 6% |
| | ⚠ Acute Tox. 4 H302; ⚠ Eye Irrit. 2 H319; ⚠ Acute Tox. 4 H332; | |
| | ⚠ STOT SE 3.H335; ⚠ Aquatic Chronic 4.H413 | |
| CAS: 52080-58-7 EC: 610-776-8 | [4-[4,4'-Bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]methyline C.I. 42535:1Solvent Violet 8 | 10% |
| | ⚠ Acute Tox. 4 H302; ⚠ Eye Irrit. 2 H319; | |
| CAS: 2390-60-5 EC: 219-232-0 | Basic blue 7 | 3,0% |
| | ⚠ Acute Tox. 3 .H301; ⚠ Eye Irrit. 2 H319; | |
| | ⚠ Aquatic Acute 1 .H400; | |

Remark:

2,2',2''-nitrilotriethanol (CAS No.102-71-6)
Synonym: tris(Hydroxyethyl)amine

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 wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth with water.
Never give anything by mouth to an unconscious person.
Call for a doctor immediately.

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 Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment:

Wear fully protective suit.
Mouth respiratory protective device.

6 Accidental release measures

Personal precautions , protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Avoid contact with eyes.
Avoid contact with skin.

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

Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Keep away from heat and direct sunlight.
Prevent formation of aerosols.
Avoid contact with eyes and skin.
Information about fire - and explosion protection: Normal measures for preventive fire protection.

Conditions for safe storage , including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in a cool location.
Store only in the original receptacle.
Information about storage in one common storage facility:
Store a way from foodstuff's.
Store away from oxidizing agents.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

Control parameters

| Ingredients with limit values that require monitoring at the workplace: | |
|---|----------------------------|
| 100-51-6 Benzyl alcohol | |
| MAK (Germany) | nicht festgelegt |
| 122-99-6 2-Phenoxyethanol | |
| MAK (Germany) | 20 ml/m ³ , ppm |
| 57-55-6 propane-1,2-diol | |
| MAK (Germany) | nicht festgelegt |
| 102-71-6 2, 2', 2''-nitrilotriethanol | |
| MAK (Germany) | 5E mg/m ³ |

DNELs: Data not available.

PNECs: Data not available.

Additional information: The lists valid during the making were used as basis.

Exposure controls

Based on the composition shown in Section 3 , the following measures are suggested for occupational safety measure

Personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

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 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 properties

• General Information

• Appearance:

Form: Gel

Colour: Blue

• Odour: Odourless

• Odour threshold: Data not available.

• pH-value: Data not available.

• Change in condition: Data not available. Data not available.

Melting point/Melting range: Boiling point/Boiling range:

10 Stability and reactivity

Reactivity No decomposition if used according to specifications.

| | |
|---|---|
| • pH- value | 6~10 |
| • Flash point: | Data not available. |
| • Flammability (solid , gaseous): | Not applicable. |
| • Auto-ignition temperature: | Data not available. |
| • Decomposition temperature: | Data not available. |
| • Self-igniting: | Product is not selfigniting. |
| • Danger of explosion: | Product does not present an explosion hazard. |
| • Explosion limits | |
| Lower: | Data not available. |
| Upper: | Data not available. |
| • Oxidizing properties: | Data not available. |
| • Vapour pressure: | 13.3 mm Hg (100 °C)(Benzoyl alcohol) |
| • Density: | 1.1 g/cm ³ (lit.) |
| • Relative density: | Data not available. |
| • Vapour density: | Data not available. |
| • Evaporation rate: | Data not available. |
| • Solubility in/Miscibility with water: | Data not available. |
| • Partition coefficient (n-octanol/water): | Data not available. |
| • Viscosity: | |
| Dynamic: | 5000mpa.s±1000(25 °C) by NDJ-79 viscometer |
| Kinematic: | Data not available. |
| • Other information | Data not available. |

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Nitrogen oxides, carbon monoxide, carbon dioxide, nitrogen ,acid smoke and fumes.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity

| • LD/LC50 values relevant for classification: | | |
|--|------|----------------------|
| 100-51-6 Benzyl alcohol | | |
| Oral | LD50 | 1230 mg/kg (rat) |
| Dermal | LD50 | 2000 mg/kg (rabbit) |
| 122-99-6 2-Phenoxyethanol | | |
| Oral | LD50 | 1260 mg/kg (rat) |
| Dermal | LD50 | 5000 mg/kg (rabbit) |
| 57-55-6 propane-1 , 2-diol | | |
| Oral | LD50 | 20000 mg/kg (rat) |
| Dermal | LD50 | 20800 mg/kg (rabbit) |

| | | |
|---|------|---|
| 9003-39-8 Polyvinylpyrrolidone (PVP) | | |
| Oral | LD50 | >40000 mg/kg (mouse) 100000 mg/kg (rat) |
| 112-80-1 oleic acid ,pure | | |
| Oral | LD50 | 28000 mg/kg (mouse) 74000 mg/kg (rabbit) |
| 102-71-62,2"-nitrioltriethanol | | |
| Oral | LD50 | 5846 mg/kg (mouse) 2200 mg/kg (rabbit) |
| Dermal | LD50 | >22500 mg/kg (rabbit) |

Primary irritant effect

on the skin: Irritating effect.

on the eye: Irritating effect.

Sensitization: Sensitization possible.

Toxicokinetics , metabolism and distribution: No further relevant information available.

Acute effects (acute toxicity^ irritation and corrosivity): No further relevant information available.

Repeated dose toxicity: No further relevant information available.

CMR effects (carcinogenicity , mutagenicity and toxicity for reproduction):

No further relevant information available.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behaviour 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 (German Regulation) (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 together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations

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14 Transport information

| | |
|--|-----------------|
| • UN-Number ADR , IMDG , IATA | Not applicable. |
| • UN proper shipping name ADR , IMDG , IATA | Not applicable. |
| • Transport hazard class(es) • ADR , IMDG, IATA • Class | Not applicable. |
| • Packing group • ADR , IMDG, IATA • Marine pollutant: | Not applicable. |
| • Special precautions for user | Not applicable. |
| • Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. |
| • UN "Model Regulation": | - |

15 Regulatory information

Safety , health and environmental regulations/legislation specific for the substance or mixture
MAK(German Maximum Workplace Concentration)

| Ingredients with limit values that require monitoring at the workplace: | |
|---|----------------------------|
| 100-51-6 Benzyl alcohol | |
| MAK (Germany) | nicht festgelegt |
| 122-99-6 2-Phenoxyethanol | |
| MAK (Germany) | 20 ml/m ³ , ppm |
| 57-55-6 propane-1,2-diol | |
| MAK (Germany) | nicht festgelegt |
| 102-71-6 2,2',2"-nitrilotriethanol | |
| MAK (Germany) | 5E mg/m ³ |

| |
|---|
| • National regulations: |
| • Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water. |
| • Other regulations, limitations and prohibitive regulations |
| • SVHC Candidate List of REACH Regulation Annex XIV Authorisation (30/3/2017) None of the ingredients is listed. |
| • REACH Regulation Annex XVII Restriction (30/3/2017) None of the ingredients is listed. |
| • REACH Regulation Annex XIV Authorization List (30/3/2017) None of the ingredients is listed. |
| Chemical safety assessment: A Chemical Safety Assessment has not been carried out. |

16 Other information

Relevant phrases

H301 Toxic if swallowed.
H302 Harmful if swallowed.
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.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life

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The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1272/2008 ,
REGULATION (EC) No 1907/2006 , Regulation (EU) No 453/2010 .

DISCLAIMER OF LIABILITY :

The information in this MSDS/SDS was obtained from sources which we believe are reliable. However , the information is provided without any warranty , express or implied , regarding its correctness. The conditions or methods of handling , storage , use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons , we do not assume responsibility and expressly disclaim liability for loss , damage or expense arising out of or in any way connected with the handling , storage , use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product , this MSDS/SDS information may not be applicable.

Abbreviations and acronyms:

ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association ICAO:

International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration , 50 percent

LD50: Lethal dose , 50 percent

Acute Tox. 3: Acute toxicity , Hazard Category 3

Acute Tox. 4: Acute toxicity , Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation , Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation , Hazard Category 2

Skin Sens. 1: Sensitisation - Skin , Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard , Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard , Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard , Category 3

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