

Technical Data Sheet

610 – Stainless Steel Pen

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This Technical Data Sheet is applicable to the

610-*	Stainless Steel Pen – All Variants
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Industry Use

Stainless Steel food factory stick pens are robust, hard wearing and designed to be metal and x-ray detectable to help prevent foreign matter contamination.

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

Product Details

Trade Name: ball pen ink

Registration number: Not available

Application of the substance/the preparation: Writing

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.

R22 – Harmful if swallowed

R36 – Irritating to eyes

R40 – Limited evidence of a carcinogenic effect

R43 – May cause sensitization by skin contact

R51/53 – 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.

Composition/Information on ingredients

Chemical characterization

Description:

Mixture of substances listed below with nonhazardous additions. For the wording of the listed risk phrases refer

· Dangerous components:		
CAS: 122-99-6 EINECS: 204-589-7 Index number: 603-098-00-9	2-Phenoxyethanol ☒ Xn, ☒ Xi; R 22-36	22,0%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	Benzyl alcohol ☒ Xn, ☒ Xi; R 20/22-43	20,0%
CAS: 548-62-9 EINECS: 208-953-6 Index number: 612-204-00-2	C.I. Basic Violet 3 Carc. Cat. 3; ☒ Xn, ☒ Xi, ☒ N; R 22-40-41-50/53	7,0%
CAS: 2580-56-5 EINECS: 219-943-6	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride ☒ Xn; R 22	6,0%

· Non-dangerous component:		
CAS: 25054-06-2	Formaldehyde, polymer with cyclohexanone	20,0%
CAS: 61788-97-4	Epoxy resins	10,0%
CAS: 147-14-8 EINECS: 205-685-1	29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	8,0%
CAS: 57-55-6 EINECS: 200-338-0	propane-1,2-diol	6,0%
CAS: 102-71-6 EINECS: 203-049-8	2,2',2"-nitrilotriethanol	1,0%

Remark:

[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5-dien-1 ylidene dimethylammonium chloride(CAS NO.2580-56-5)
Synonym:C.I Pigment blue 26

Formaldehyde, polymer with cyclohexanone(CAS NO.25054-06-2) Note:Ketonic resin used in the product

29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper(CAS NO.147-14-8)
Synonym:Phthalocyanine blue

Propane-1,2-diol(CAS NO.57-55-6) Synonym:1,2-Propanediol

2,2',2"-nitrilotriethanol(CAS NO.102-71-6)
Synonym:Tris(hydroxyethyl)amine

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 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. If symptoms persist, consult a doctor

After swallowing:

Call for a doctor immediately

Fire-fighting measures

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

Protective equipment:

Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit.

Accidental release measures

Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

Mount respiratory protective device.

Ensure adequate ventilation.

Avoid to contact with eyes and skin.

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.

Ensure adequate ventilation

Handling and storage

Handling:

Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Keep receptacles tightly sealed.

Open and handle receptable with care.

Keep away from heat and direct sunlight.

Avoid to contact with eyes and skin.

Information about fire and explosion protection:

Keep ignition sources away – Do not smoke.

Keep respiratory protective device available.

Storage

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 away from foodstuffs

Store away from water.

Do not store together with oxidizing and acidic materials. Do no store together with textiles.

Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

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:	
100-51-6 Benzyl alcohol (20,0%)	
WEEL (USA)	44 mg/m ³ , 10 ppm
548-62-9 C.I. Basic Violet 3 (7,0%)	
LD50 (EU)	Short-term value: 420 mg/m ³
57-55-6 propane-1,2-diol (6,0%)	
WEL (Great Britain)	474* 10** mg/m ³ , 150* ppm
WEEL (USA)	*total vapour and particulates **particulates 10 mg/m ³
102-71-6 2,2',2''-nitrioltriethanol (1,0%)	
TLV (USA)	5 mg/m ³

DNELs: Not available

PNECs: Not available

Additional information: The lists valid during the maxing 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 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/ 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

Physical and chemical properties

· General Information	
Form: Colour: Odour:	Gel Dark blue Weak, characteristic
· Change in condition: Melting point/Melting range: Boiling point/Boiling range:	Not available. Not available.
· Flash point:	Not available.
· Flammability (solid, gaseous):	Not available.
· Ignition temperature:	Not available.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper: · Oxidizing properties:	Not available. Not available. Not available.

Vapor pressure: N/A

Density: 1,08 g/cm³

Relative density: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Solubility in / Miscibility with:

Water: Soluble in alcohol

pH Value: 6 – 8

Segregation coefficient (n-octanol/water): N/A

Viscosity:

Dynamic at 25°C: 6000 mPas

Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications

Materials to be avoided:

Dangerous reactions: No dangerous reactions known

Dangerous decomposition products: No dangerous decomposition products known

Toxicological information

Acute

· LD/LC50 values relevant for classification:		
122-99-6 2-Phenoxyethanol		
Oral	LD50	1260 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)
100-51-6 Benzyl alcohol		
Oral	LD50	1230 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
548-62-9 C.I. Basic Violet 3		
Oral	LD50	420 mg/kg (rat)
57-55-6 propane-1,2-diol		
Oral	LD50	2000 mg/kg (rat)
Dermal	LD50	20800 mg/kg (rabbit)
102-71-6 2,2',2''-nitrioltriethanol		
Oral	LD50	8000 mg/kg (rat)

Primary irritant effect

On the skin: Irritating effects possible

On the eye: Irritating effect

Sensitization: Sensitization possible through skin contact.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issues in the latest version:

Harmful

Irritant

Toxicokinetics, metabolism and distribution: Not available

Acute effects (acute toxicity, irritation and corrosivity): Not available

Sensitisation: May cause sensitization by skin contact

Repeated dose toxicity: Not available

Ecological information

Information about elimination (persistence and degradability): Not available

Behaviour in environmental systems

Mobility and bioaccumulation potential: Not available

Ecotoxicological effects

Aquatic toxicity: Not available

Remark: Toxic for fish

General notes: Water Hazard Class 2 (Germany Regulation) (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. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

PBT assessments: Not available

Disposal considerations

Product

Recommendation:

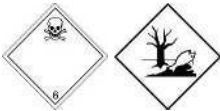
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Transport information

· Land transport ADR/RID (cross-border)



- **ADR/RID class:** 6.1 Toxic substances.
- **Danger code (Kemler):** 60
- **UN-Number:** 2810
- **Packaging group:** III
- **Hazard label:** 6.1
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 2810 TOXIC LIQUID, ORGANIC, N.O.S. (2-Phenoxyethanol, Benzyl alcohol)
- **Limited quantities (LQ):** LQ7
- **Transport category:** 2
- **Tunnel restriction code:** E

· Maritime transport IMDG



- **IMDG Class:** 6.1
- **UN Number:** 2810
- **Label:** 6.1
- **Packaging group:** III

· **EMS Number:** F-A,S-A

· **Marine pollutant:** Yes
Symbol (fish and tree)

· **Proper shipping name:** TOXIC LIQUID, ORGANIC, N.O.S. (2-Phenoxyethanol, Benzyl alcohol)

· Air transport ICAO-TI and IATA-DGR



- **ICAO/IATA Class:** 6.1
- **UN/ID Number:** 2810
- **Label:** 6.1
- **Packaging group:** III
- **Proper shipping name:** TOXIC LIQUID, ORGANIC, N.O.S. (2-Phenoxyethanol, Benzyl alcohol)
- **Environmental hazards:** Product contains environmentally hazardous substances: C.I. Basic Violet 3

Regulatory information

Section 355(extremely hazardous substances):

None of the ingredients are listed

Section 313(Specific toxic chemical listings):

None of the ingredients are listed

TSCA (Toxic Substances Control Act):

122-99-6 2-Phenoxyethanol

100-51-6 Benzyl alcohol

25054-06-2 Formaldehyde, polymer with cyclohexanone

147-14-8 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper

548-62-9 C.I. Basic Violet 3

57-55-6 propane-1,2-diol

2580-56-5 [4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride

102-71-6 2,2',2''-nitrilotriethanol

Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed

Chemicals known to cause developmental toxicity:

None of the ingredients are listed

Carcerogenity categories

EPA (Environmental Protection Agency):

None of the ingredients are listed

IARC (International Agency for Research on Cancer):

102-71-6 2,2',2''-nitrilotriethanol

NTP (National Toxicology Program):

None of the ingredients are listed

TLV (Threshold Limit Value established by ACGIH):

None of the ingredients are listed

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

None of the ingredients are listed

OSHA-Ca (Occupational Safety and Health Administration):

None of the ingredients are listed

Labelling according to EU guidelines:

The product has been classified as dangerous according to Directive 67/548/EEC, 1999/45/EEC and 1272/2008/EC.

Code letter and hazard designation of product:

Xn Harmful

N Dangerous for the environment

Hazard-determining components of labelling:

Banzyl alcohol

C.I. Basic Violet 3

Risk phrases:

22 Harmful if swallowed

36 Irritating to eyes.

40 Limited evidence of a carcinogenic effect.

43 May cause sensitization by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:

2 Keep out of the reach of children.

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

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water

Other information**Relevant R-phrases**

20/22 Harmful by inhalation and if swallowed.

22 Harmful if swallowed

36 Irritating to eyes

40 Limited evidence of a carcinogenic effect.

41 Risk of serious damage to eyes.

43 May cause sensitization by skin contact

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The contents and format of this MSDS/SDS are in accordance with Regulation (EC) No. 1907/2006 EU commission directive 1999/45/EC, 67/548/EEC

We confirm that the stainless steel housing products are suitable for use in contact with all food types under and condition of use and are in conformity with the applicable requirements of the following regulations and standards:

Regulation (EC) no. 1935/2004 on Material and Articles intended to come into contact with food.

Specific metals release limits of council of Europe (COE) resolution CM/Res (2013) 9 on metals and alloys used in food contact materials.

Manufacture of these products is under quality control procedures meeting the requirements of regulation (EC) no. 2023/2006 on good manufacturing practice for materials and articles intended to come into contact with food.

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