# 100-I11 Blue Cryo Ink Refill

**Document Number: HSE 7159C**

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**Writing system** Pressurized refill.

**Ball** TC: 1.0mm

**Tube** Metal

**End pulg** Plastic in writing colour.

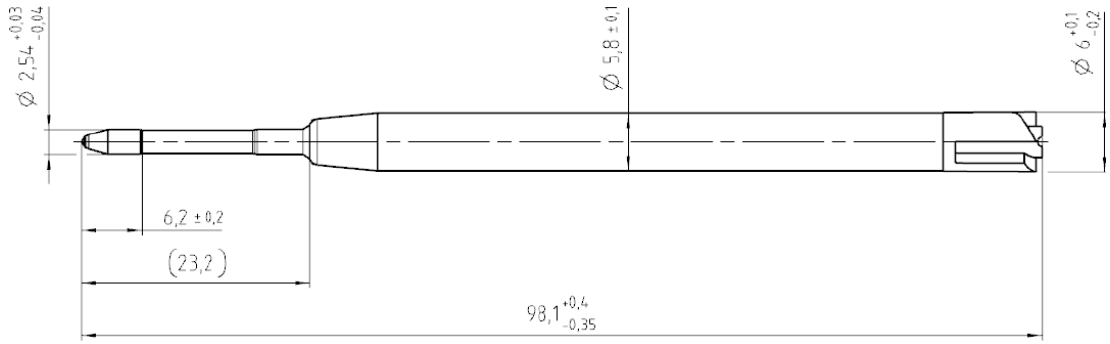
**Cap** Plastic in writing colour.

**Available writing colours** Blue, black.

**Write-out length according to EWIMA** 6000 m (±) 30%

**Packing unit** 100 pcs.

**Weight per packing unit** net 0.45kg / gross 0.5kg.




# 1. Identification of the substance/mixture and of the company/undertaking

## 1.1 Product Identifier

**Trade name** CKS 46/17 Blue
**Article number** 100000001436
**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 point pen.

# 2. Hazards Identification

## 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H319 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**

GHS07 GHS09

**Signal word** Warning

**Hazard-determining components of labelling:**
2-Phenoxyethanol
Solvent blue dye
Benzyl alcohol

**Hazard statements**
H302+H332 Harmful if swallowed or if inhaled.
H319 Causes serious eye irritation.
H335 May cause respiratory irritaion.
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse catiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3 Other Hazards

**Results of PBT and vPvB assessment**
**PBT** Not applicable
**VPvB** Not applicable

# 3. Composition/information on ingredients

## 3.1 Chemical characterisation: Mixtures

**Description:** Mixture of the substance listed below with nonhazardous additions.

| **Dangerous Components** | | |
|---|---|---|
| CAS: 122-99-6<br>EINECS: 204-589-7<br>Reg.nr.: 01-2119488943-21 | 2-Phenoxyethanol<br>  Acute Tox. 4, H302; eye irrit. 2, H319 | 25-50% |
| CAS: 100-51-6<br>EINECS: 202-859-9<br>Reg.nr.: 01-2119492630-38 | Benzyl alcohol<br>  Acute Tox. 4, H302; Acute Tox. 4, H332; eye irrit. 2, H319 | 10-25% |
| | Solvent blue dye<br>   Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox, H332; eye irrit. 2, H319; STOT SE 3, H335 | 10-25% |

**Additional information** For the wording of the listed hazard phrases refer to section 16.

# 4. First aid measures

## 4.1 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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.
**After skin contact** Generally the product does not irritate the skin.
**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.

## 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.

# 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: Mount respiratory protective device.

# 6. Accidental Release Measures

## 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.

## 6.2 Environmental precautions
Inform respective authorities in case of seepage into water course or sewage system.
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).
Dispose contaminated material as waste according to item 13.
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.

# 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.

# 8. Exposure controls/personal protection

## 8.1 Control parameters

**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.

## 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 eyes.
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** 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 protection**

Tightly sealed goggles

# 9. Physical and Chemical properties

## 9.1 Information on basic physical and chemical properties

| **General Information** | |
|---|---|
| **Appearance**<br>Form<br>Colour<br>Odour<br>Odour threshold | <br>Fluid<br>According to product specification<br>Product specification<br>Not determined |
| Important information on protection of health and environment, and on safety. | |
| pH-value at 20 °C: | 4.5 |
| **Change in condition**<br>Melting point/freezing point:<br>Initial boiling point and boiling range: | <br>Undertermined<br>205°C |
| Flash point | 101°C |
| Flammability (solid,gas) | Not applicable |
| Ignition temperature | 400°C |
| Decomposition temperature | Not determined |
| Auto-ignition temperature | Product is not selfignighting |
| Explosive properties | Not determined |
| **Explosion limits**<br>Lower:<br>Upper: | <br>1.3 Vol%<br>13 Vol % |
| Vapour pressure at 20 °C: | 0.07hPa |
| **Density at 20 °C**<br>Relative density<br>Vapour density<br>Evaporation rate | 1.2 g/cm$^3$<br>Not determined<br>Not determined<br>Not determined |
| Solubility in / Miscibility with water | Not miscible or difficult to mix |
| Partition coefficient: n-octanol/water: | Not determined |
| Viscosity:<br>Dynamic at 20 °C:<br>Kinematic: | <br>120,000 mPas<br>Not determined. |
| Solvent content:<br>Organic solvents: | <br>52.3% |
| Solids content: | 46.3% |
| **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<br>mixture. These data are no binding product specifications. |

# 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.

# 11. Toxicological Information

## 11.1 Information on toxicological effects
Acute toxicity
Harmful if swallowed or if inhaled.

| **LD/LC50 values relevant for classification** | | |
|---|---|---|
| **122-99-6 2-Phenoxyethanol** | | |
| Oral | LD50 | 1,840 mg/kg (rat) |

**Primary irritant effect**
**Skin corrosion/irritation** Based on available data, the classification criteria are not met.
**Serious eye damage/irritation** Causes serious eye irritation.
**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
**Additional toxicological information**
**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** 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.

# 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.
Ecotoxical effects:
Remark: Toxic for fish

**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.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms

### 12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

### 12.6 Other adverse effects
No further relevant information available.

# 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.

| **European waste catalogue** | |
|---|---|
| 08 00 00 | Waste 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 orother hazardous substances. |

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

# 14. Transport Information

| | |
|---|---|
| 14.1 UN-Number<br>· ADR, IMDG, IATA | <br>UN3082 |
| 14.2 UN proper shipping name<br>· ADR · IMDG, IATA | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S. (Benzyl alcohol, Solvent blue dye)<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Benzyl alcohol, Solvent blue dye) |
| 14.3 Transport hazard class(es)<br>· ADR<br>Class<br><br>· Label | <br><br>9 (M6) Miscellaneous dangerous substances and articles.<br>9 |
| IMDG<br>Class<br>Label | <br><br>9 Miscellaneous dangerous substances and articles.<br>9 |
| IATA<br><br>Class<br>Label | <br><br>9 Miscellaneous dangerous substances and articles.<br>9 |
| 14.4 Packing group<br>ADR, IMDG, IATA | <br>III |
| 14.5 Environmental hazards:<br><br>· Special marking (ADR)<br>Special marking (IATA): | Product contains environmentally hazardous substances: Solvent blue dye<br>Symbol (fish and tree)<br>Symbol (fish and tree) |
| 14.6 Special precautions for user<br><br><br>Hazard identification number (Kemler code):<br>EMS Number<br>Stowage Category | Warning: Miscellaneous dangerous substances and articles.<br>90<br>F-A,S-F<br>A |
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| **Transport/Additional information:** | |
| ADR<br>Limited quantities (LQ)<br>Excepted quantities (EQ)<br><br><br>Transport category<br>Tunnel restriction code | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml<br>3<br>- |
| IMDG<br>· Limited quantities (LQ)<br>· Excepted quantities (EQ) | 5L<br>Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| UN "Model Regulation": | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S. (BENZYL ALCOHOL, SOLVENT BLUE DYE), 9, III |

# 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.
**Seveso category** E2 Hazardous to the Aquatic Environment
**Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
**Qualifying quantity (tonnes) for the application of upper-tier** requirements 500 t
**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. |

National regulations:
Technical instructions (air)

| Class | Share in % |
|---|---|
| NK | 50-100 |

**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.

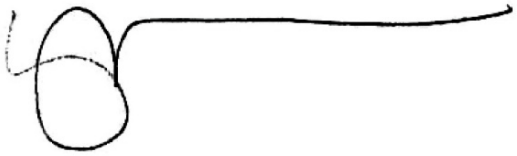
**Other Information**
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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

LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
* Data compared to the previous version altered.





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