

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Ink - Sky blue

Version 1.0

Issue date: 16/11/2017

Revision date: 16/11/2017

SDS Record Number: EFHZ17100190-CG-13

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

1.1 Product identifier:

Identification on the label/Trade name: Ink - Sky blue
Additional identification: Not available
Identification of the product: See section 3
Index Number: Not available
REACH registration No.: Not available

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Not available.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): *[Illegible text]*

Address: *[Illegible text]*

[Illegible text]

Telephone: *[Illegible text]*

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

| REGULATION (EC) No 1272/2008 | |
|----------------------------------|------------------|
| Hazard classes/Hazard categories | Hazard statement |
| N/A | N/A |

For full text of H- phrases: see section 2.2.

2.2 label elements:

Hazard Pictograms: No hazard pictogram is used.
Signal Word(S): No signal word is used.
Hazard Statement: Not applicable.
Precautionary statement: Not applicable.

2.3 Other hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

| Chemical Name | Registration No. | CAS No. | EC No. | Concentration | Classification |
|---------------------------------|------------------|------------|-----------|---------------|--|
| Brilliant Blue | N/A | 3844-45-9 | 223-339-8 | 2.20% | Not Classified |
| glycerin | N/A | 56-81-5 | 200-289-5 | 25% | Not Classified |
| Distilled water | N/A | 7732-18-5 | 231-791-2 | 72.73% | Not Classified |
| 2-bromo-2-nitropropane-1,3-diol | N/A | 52-51-7 | 200-143-0 | 0.045% | H302 H312 H315 H318 H335 H400(M=10) |
| 2,2-dibromo-2-cyanoacetamide | N/A | 10222-01-2 | 233-539-7 | 0.025% | H301 H315 H317 H318 H330(2) H400 |

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

None expected to require first aid measures. If breathed in, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical attention.

4.1.2 In case of skin contact:

None expected to require first aid measures. Wash thoroughly with soap and water. Get medical attention in the unlikely event that irritation persists.

4.1.3 In case of eyes contact:

None expected to require first aid measures. Flush with running water for at least 15 minutes. If irritation persists get medical attention.

4.1.4 In case of ingestion:

Immediate first aid is not likely to be required. A physician or poison control center can be contacted for advice.

4.2 Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

4.3 Indication of any immediate medical attention and special treatment needed:

Symptomatic treatment.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Use extinguishing agents appropriate for surrounding fire.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

5.3 Advice for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.1.2 For emergency responders: Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

6.2 Environmental Precautions: Avoid disposing into drainage/sewer system or directly into the aquatic environment.

6.3 Methods for Containment and Cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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 information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures: Ensure good ventilation/exhaustion at the workplace. Wash thoroughly after handling.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s): Not available.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

| Substance | CAS No. | Occupational Exposure Limit Value (8-hour reference period) | | Occupational Exposure Limit Value (15-minute reference period) | | |
|----------------|---------|---|--------|--|--------|-------|
| | | ppm | mg/ m3 | ppm | mg/ m3 | Notes |
| Glycerol, mist | 56-81-5 | - | 10 | - | - | - |

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Use adequate ventilation to keep airborne concentrations low.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: No special requirements.

Hand protection: No special requirements. Wear gloves if necessary.

Body protection: No special requirements.

Respiratory protection: No special requirements.

Thermal hazards: Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment. Dispose of rinse water in accordance with local and national regulations

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

| | |
|--|----------------------------------|
| Appearance: | Liquid |
| Colour: | Sky blue |
| Odour: | Not available |
| Odour threshold: | Not available |
| pH: | Not available |
| Melting point/range (°C): | 18.17 °C(CAS#56-81-5) |
| Boiling point/range (°C): | 290 °C(CAS#56-81-5) |
| Flash point (°C): | 177 °C(CAS#56-81-5) |
| Evaporation rate: | Not available |
| Flammability (solid, gas): | Not available |
| Ignition temperature (°C): | Not available |
| Upper/lower flammability/explosive limits: | 19 %/ 2.7 %(CAS#56-81-5) |
| Vapour pressure (25°C): | 0.003 mm Hg(50 °C) (CAS#56-81-5) |
| Vapour density: | Not available |
| Density: | 1.261 g/ml(CAS#56-81-5) |
| Bulk density (kg/m ³): | Not available |
| Water solubility (g/l): | 1000000 mg/L(CAS#56-81-5) |
| n-Octanol/Water (log Po/w): | -1.75(CAS#56-81-5) |
| Auto-ignition temperature: | 370 °C(CAS#56-81-5) |
| Decomposition temperature: | Not available |
| Viscosity, dynamic (mPa.s): | 1412 mPa s(20°C) (CAS#56-81-5) |

9.2. Other information:

| | |
|--|----------------------------|
| Fat solubility(solvent– oil to be specified) etc: | Not available |
| Surface tension: | ca. 63.4 mN/m(CAS#56-81-5) |
| Dissociation constant in water(pKa): | Not available |

Section 10 Stability and reactivity

| | |
|--|---|
| 10.1 Reactivity: | The substance is stable under normal storage and handling conditions. |
| 10.2 Chemical stability: | Stable at room temperature in closed containers under normal storage and handling conditions. |
| 10.3 Possibility of hazardous reactions: | No dangerous reactions known. |
| 10.4 Conditions to avoid: | Incompatible materials. |
| 10.5 Incompatible materials: | Strong oxidizing agents. |
| 10.6 Hazardous decomposition products: | Carbon oxides. |

Section 11 Toxicological information

11.1 Information on toxicological effects:

| | |
|-------------------------|----------------------|
| Acute toxicity: | |
| Glycerol (CAS#56-81-5): | |
| LD50(Oral, Rat): | 27200 mg/kg (female) |
| LD50(Dermal, Rat): | Not available |
| LC50(Inhalation, Rat): | >2.75 mg/L 4 h |

| | |
|---|----------------|
| Skin corrosion/Irritation: | Not classified |
| Serious eye damage/irritation: | Not classified |
| Respiratory or skin sensitization: | Not classified |
| Germ cell mutagenicity: | Not classified |
| Carcinogenicity: | Not classified |
| Reproductive toxicity: | Not classified |
| STOT- single exposure: | Not classified |
| STOT-repeated exposure: | Not classified |
| Aspiration hazard: | Not classified |

Section 12 Ecological information

12.1 Toxicity:

| Acute toxicity | | Time | Species | Method | Evaluation | Remarks |
|----------------|-----|------|---------|----------|------------|---------|
| LC50 | N/A | 96h | Fish | OECD 203 | N/A | N/A |
| EC50 | N/A | 48h | Daphnia | OECD 202 | N/A | N/A |
| EC50 | N/A | 72h | Algae | OECD 201 | N/A | N/A |

| | |
|---|----------------|
| 12.2 Persistence and degradability: | Not available. |
| 12.3 Bioaccumulative potential: | Not available. |
| 12.4 Mobility in soil: | Not available. |
| 12.5 Results of PBT&vPvB assessment: | Not available. |
| 12.6 Other adverse effects: | Not available. |

Section 13 Disposal considerations

| | |
|--------------------------------------|---|
| 13.1 Waste treatment methods: | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. |
|--------------------------------------|---|

Section 14 Transport information

| | Land transport(ADR/RID) | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|---|-------------------------|----------------------|---------------------------|
| UN-Number | Not regulated | Not regulated | Not regulated |
| UN Proper shipping name | Not regulated | Not regulated | Not regulated |
| Transport hazard Class | Not regulated | Not regulated | Not regulated |
| Packaging group | Not regulated | Not regulated | Not regulated |
| Environmental hazards | No | No | No |
| Special precautions for user | See section 2.2 | See section 2.2 | See section 2.2 |
| Transport in bulk according to Annex II of Marpol and the IBC Code | Not regulated | Not regulated | Not regulated |

Section 15 Regulation information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed.
For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical Safety Assessment has been carried out? YES NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.