

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

### **1.1 Product identifier**

**Trade name:** Highlighter Ink 11-W-50N

**1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

**Application of the substance / the preparation** Industrial use Consumer articles

### **1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:**

Innovative Ink GmbH

Ipsheimer Str. 14

D-91438 Bad Windsheim

Germany

Tel. +49-9841-403333

Fax +49-9841-403335

**E-Mail competent person:** info@hdcc-hh.de

**1.4 Emergency telephone number:** +49 (0)171-4903969 (24 hours)

## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.

### **Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

### **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### **2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008** n/a

**Hazard pictograms** n/a

**Signal word** n/a

**Hazard statements** n/a

**Precautionary statements** n/a

**Additional information:** n/a

### **2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable. **vPvB:** Not applicable.

## **SECTION 3: Composition/information on ingredients**

### **3.2 Chemical characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:** n/a

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

**Trade name: Highlighter Ink 11-W-50N**

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures General information:**

If symptoms persist or in case of doubt seek medical advice. Immediately remove any clothing soiled by the product.

**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 (10-15 min.) under running water.

Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist consult a doctor.

#### **After swallowing:**

Rinse out mouth and then drink plenty of water. Seek medical treatment.

**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 media:**

The product is not flammable.

Use fire extinguishing methods suitable to surrounding conditions. **Unsuitable extinguishing media:** Not specified

**5.2 Special hazards arising from the substance or mixture** Non-combustible.

### **5.3 Advice for firefighters**

**Protective equipment:** Wear self-contained respiratory protective device.

#### **Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation.

Avoid formation of mist/vapour/spray.

Do not breathe mist/vapours/spray.

Wear protective clothing.

Avoid contact with eyes, skin and clothing.

### **6.2 Environmental precautions:**

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 penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

### **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. Clear contaminated areas thoroughly. Send for recovery or disposal in suitable receptacles.

**Trade name: Highlighter Ink 11-W-50N**

### 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.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Avoid formation of mist/vapour/spray.

Do not breathe mist/vapours/spray.

Wear protective clothing.

Avoid contact with eyes, skin and clothing.

**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:**

Store tightly closed in a cool and dry place with adequate ventilation.

#### **Further information about storage conditions:**

Keep container tightly sealed. Protect from frost.

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

## **SECTION 8: Exposure controls/personal protection**

**Additional information about design of technical facilities:** Provide sufficient mechanical ventilation.

### **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**

#### **Personal protective equipment:**

##### **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals. Immediately remove all soiled and contaminated clothing.

Keep away from foodstuffs, beverages and feed.

When using do not eat, drink or smoke.

Wash hands before breaks and at the end of work.

Do not breathe mist/vapours/spray.

Avoid contact with eyes, skin and clothing.

**Respiratory protection:** Not necessary if room is well-ventilated.

#### **Protection of hands:**

Chemical resistant gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. **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 cannot 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.

**Trade name: Highlighter Ink 11-W-50N****Eye protection:** Tightly sealed goggles (EN 166)**Body protection:**

Protective work clothing

Protective equipment should be selected specifically for the working place, depending on concentration and quantity.  
The chemical resistance of the protective equipment should be clarified with the respective supplier.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties General Information**

**Appearance:**

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Liquid          |
| <b>Colour:</b>          | blue            |
| <b>Odour:</b>           | Not determined. |
| <b>Odour threshold:</b> | Not determined. |
| <b>pH-value:</b>        | 6 - 7           |

**Change in condition**

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Melting point/Melting range:</b> | Not determined. |
| <b>Boiling point/Boiling range:</b> | 100 °C          |

**Flash point:** Not applicable.**Flammability (solid, gaseous):** Not applicable.**Ignition temperature:** Not applicable.**Decomposition temperature:** Not determined.**Self-igniting:** Not determined.**Danger of explosion:** Not determined.**Explosion limits:****Lower:** Not determined.**Upper:** Not determined. **Oxidizing properties** Not determined. **Vapour pressure:**  
Not determined.**Density:** 1,05 g/cm<sup>3</sup>**Relative density** Not determined. **Vapour density** Not determined. **Evaporation rate**  
Not determined.**Solubility in / Miscibility with water:** Soluble.**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:**

|                   |                 |
|-------------------|-----------------|
| <b>Dynamic:</b>   | 5 - 7 mPas      |
| <b>Kinematic:</b> | Not determined. |

**9.2 Other information** No further relevant information available.

**Trade name: Highlighter Ink 11-W-50N**

## **SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability** No further relevant information available.

**10.3 Possibility of hazardous reactions** No further relevant information available.

**10.4 Conditions to avoid** Protect from frost.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** No further relevant information available.

## **SECTION 11: Toxicological information**

**11.1 Information on toxicological effects Acute toxicity:**

**LD/LC50 values relevant for classification:**

There are no quantitative data on the toxicity of the product.

**Primary irritant effect:**

**on the skin:** No data available. **on the eye:** No data available.

**Corrosivity:** No data available.

**Sensitization:** No data available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No data available.

**STOT-single exposure:** No data available.

**STOT-repeated exposure:** No data available.

**Aspiration hazard:** No data available.

**Additional toxicological information:**

The usual precautionary measures are to be adhered to when handling chemicals.

There are currently no toxicological data that allow a more accurate assessment of the possible hazard potential.

## **SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:** There are no quantitative data on the toxicity of the product.

**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 Other adverse effects**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.

**Trade name: Highlighter Ink 11-W-50N****SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation** Dispose of waste according to official regulations.**Waste disposal key:**

The allocation of waste identity numbers / waste descriptions must be carried out according to the EEC, specific to the industry and process.

**Uncleaned packaging:****Recommendation:**

Dispose of waste according to official regulations.

Packaging that cannot be cleaned is to be disposed of in the same manner as the product.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.**SECTION 14: Transport information****14.1 UN-Number****ADR, ADN, IMDG, IATA** n/a**14.2 UN proper shipping name****ADR, ADN, IMDG, IATA** n/a**14.3 Transport hazard class(es)****ADR, ADN, IMDG, IATA****Class** n/a**14.4 Packing group****ADR, IMDG, IATA** n/a**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user** Not applicable.**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**UN "Model Regulation":** -**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations:****Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**Trade name: Highlighter Ink 11-W-50N****SECTION 16: Other information**

This information is based on our present state of knowledge. However, this shall not constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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 Harmonized 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

**Sources**

EC Directive 67/548/EC resp. 1999/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH) and 1272/2008 (GHS) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC as amended in each case.

National Threshold Limit Values of the corresponding countries as amended in each case. Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.