

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

- **1.1 Product identifier**
- **Trade name:** *HL 63xx Series; xx = 00 yellow; 10 green; 20 orange; 40 pink; 50 blue; 70 purple; 90 grey*
- **Article number:** 100000004306
- **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** *waterbased highlighter ink*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*DOKUMENTAL GmbH & Co KG  
Woellnerstraße 26  
D-67065 Ludwigshafen  
Phone + 49(0)621/37702 321  
Fax + 49(0)621/37702 391  
www.dokumental.de*
- **Further information obtainable from:**  
*Technical Service & Product Safety  
Tel.: +49-621-37702 322  
E-Mail: msds@dokumental.de*
- **1.4 Emergency telephone number:**  
*GBK Gefahrgut Büro GmbH  
+49 (0) 6132 / 84463  
Ingelheim, Deutschland*



## 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.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *none*
- **Hazard pictograms** *none*
- **Signal word** *none*
- **Hazard statements** *none*
- **Additional information:**  
*EUH210 Safety data sheet available on request.*
- **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 characterisation: Mixtures**
- **Description:** *Mixture of substances listed below with nonhazardous additions.*

• **Dangerous components:**

CAS: 18472-87-2 EINECS: 242-355-6 Reg.nr.: 01-2120115907-54	C.I. Acid Red 92	 Aquatic Acute 1, H400	0-10%
CAS: 4129-84-4 EINECS: 223-942-6	C.I. Acid Violet 17	 Aquatic Chronic 2, H411	0-2.5%

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

## SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** *No special measures required.*
- **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
- **After skin contact:** *Generally the product does not irritate the skin.*
- **After eye contact:** *Rinse opened eye for several minutes under running water.*
- **After swallowing:** *If symptoms persist consult doctor.*
- **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.*

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## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
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).
- **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**  
No special measures required.  
Ensure good ventilation/exhaustion at the workplace.
- **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:** None.
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **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.
- **Respiratory protection:** Not required.
- **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:** Goggles recommended during refilling

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## SECTION 9: Physical and chemical properties

<ul style="list-style-type: none"> <li>· <b>9.1 Information on basic physical and chemical properties</b></li> <li>· <b>General Information</b></li> <li>· <b>Appearance:</b> <ul style="list-style-type: none"> <li>Form: Fluid</li> <li>Colour: According to product specification</li> </ul> </li> <li>· <b>Odour:</b> Product specific</li> <li>· <b>Odour threshold:</b> Not determined.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Important information on protection of health and environment, and on safety.</b> -</li> </ul>	
· <b>pH-value at 20 °C:</b>	8.5
<ul style="list-style-type: none"> <li>· <b>Change in condition</b> <ul style="list-style-type: none"> <li>Melting point/freezing point: Undetermined.</li> <li>Initial boiling point and boiling range: 90 °C</li> </ul> </li> <li>· <b>Flash point:</b> &gt;93 °C</li> <li>· <b>Flammability (solid, gas):</b> Not applicable.</li> <li>· <b>Ignition temperature:</b> 400 °C</li> <li>· <b>Decomposition temperature:</b> Not determined.</li> <li>· <b>Auto-ignition temperature:</b> Product is not selfigniting.</li> <li>· <b>Explosive properties:</b> Not determined.</li> <li>· <b>Explosion limits:</b> <ul style="list-style-type: none"> <li>Lower: 0.9 Vol %</li> <li>Upper: 0.0 Vol %</li> </ul> </li> <li>· <b>Vapour pressure at 20 °C:</b> 23 hPa</li> <li>· <b>Density at 20 °C:</b> 1 g/cm<sup>3</sup></li> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Vapour density</b> Not determined.</li> <li>· <b>Evaporation rate</b> Not determined.</li> <li>· <b>Solubility in / Miscibility with water:</b> Fully miscible.</li> <li>· <b>Partition coefficient: n-octanol/water:</b> Not determined.</li> <li>· <b>Viscosity:</b> <ul style="list-style-type: none"> <li>Dynamic at 20 °C: 1.5 mPas</li> <li>Kinematic: Not determined.</li> </ul> </li> <li>· <b>Solvent content:</b> <ul style="list-style-type: none"> <li>Organic solvents: 16.4 %</li> <li>Water: 85.6 %</li> </ul> </li> <li>· <b>Solids content:</b> 36.1 %</li> </ul>	
· <b>9.2 Other information</b>	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 mixture. These data are no binding product specifications.

## SECTION 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.

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

### LD/LC50 values relevant for classification:

4129-84-4 C.I. Acid Violet 17

Oral	LD50	5,005 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, 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** Based on available data, the classification criteria are not met.
- **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.

## SECTION 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.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German 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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

• <b>14.1 UN-Number</b>	
• <b>ADR, ADN, IMDG, IATA</b>	not applicable
• <b>14.2 UN proper shipping name</b>	
• <b>ADR, ADN, IMDG, IATA</b>	not applicable
• <b>14.3 Transport hazard class(es)</b>	
• <b>ADR, ADN, IMDG, IATA</b>	
• <b>Class</b>	not applicable
• <b>14.4 Packing group</b>	
• <b>ADR, IMDG, IATA</b>	not applicable
• <b>14.5 Environmental hazards:</b>	Not applicable.
• <b>14.6 Special precautions for user</b>	Not applicable.
• <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
• <b>UN "Model Regulation":</b>	not applicable

## SECTION 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.
- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
NK	10-25

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- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

#### SECTION 16: 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**

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

- **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 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Aquatic Acute 1: Hazardous to the aquatic environment - acute 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.**