



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 04.03.2015

Version number 1

Revision: 04.03.2015

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

- **1.1 Product identifier**
- **Trade name: HBL Process Inks und PANTONE colour shades**
- **MSDS no.** 6,439
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Printing inks

- **1.3 Details of the supplier of the safety data sheet**

Manufacturer/Supplier:
hubergroup Deutschland GmbH
Feldkirchener Str. 15

Telefon: 089-9003-444
bzw. -390
Telefax: 089-9003-505

85551 Kirchheim

- **Informing department:**
Product Safety hubergroup.
Contact: Dr. Sebastian Gierisch
Telefon: + 49 89-9003-444
Telefax: + 49 89-9003-505
E-mail: product-safety@mhm.de

- **1.4 Emergency telephone number:**

During general business hours: Product Safety Division, Extension 220 or 444

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Not a hazardous substance or preparation according to EC-Directives 67/548/EEC or 1999/45/EC.
- **Information concerning particular hazards for human and environment:** none

- **2.2 Label elements**

- **Labelling according to EU guidelines:**
Observe the normal safety regulations when handling chemicals
Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.
- **Special labelling of certain preparations:**
Contains tert-Butylhydroquinone, Cobalt(II) 2-ethylhexanoate. May produce an allergic reaction.
- **2.3 Other hazards** This information is provided by the present Material Safety Data Sheet.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Dangerous components:** not relevant
- **Additional information** For the wording of the listed risk phrases refer to section 16.

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Trade name: **HBL Process Inks und PANTONE colour shades**

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SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information** In all cases of doubt, or when symptoms persist, seek medical advice.

· **After inhalation** Remove to fresh air.

· **After skin contact**

Remove contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

· **After eye contact**

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses. Obtain medical attention.

· **After swallowing** Do NOT induce vomiting. Obtain medical attention.

· **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 agents** Alcohol resistant foam, CO₂, powders, water spray.

· **For safety reasons unsuitable extinguishing agents** Water jet.

· **5.2 Special hazards arising from the substance or mixture**

Appropriate breathing apparatus may be required.

Cool closed containers exposed to fire with water.

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

· **Additional information** Collect run-off from fire fighting.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Ventilate the area.

· **6.2 Environmental precautions:**

Do not allow to enter drains. If the product contaminates rivers and lakes or sewers inform respective authorities.

· **6.3 Methods and material for containment and cleaning up:**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations. Clean preferably with a detergent. Avoid use of solvents.

· **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.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Comply with health and safety at work laws. Avoid concentrations higher than the occupational exposure limits (see Section 8), if applicable.

· Information about protection against explosions and fires:

Clothes and rags contaminated with ink, lacquer or oxidatively drying oil may cause self ignition. Keep them in closed and fireproof containers.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by storerooms and containers:

Keep container tightly closed. No smoking.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

· Further information about storage conditions:

Always keep in containers of the same material as the original one. Store in a dry, well ventilated place. Keep away from heat and direct sunlight. Store in accordance with the particular national regulations concerning water pollution.

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

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical systems:

If relevant apply technical measures to comply with the occupational exposure limits. This can be by a good general extraction and-if practically feasible, be achieved by local exhaust ventilation.

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

Numerical data - if specified - are taken from the valid national lists.

· 8.2 Exposure controls

· Personal protective equipment

· Breathing equipment: With good ventilation is not required.

· Protection of hands:

For prolonged or repeated contact use gloves.

Barrier creams may help to protect exposed skin, they should however not be applied once have come into contact with the product.

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

· Material of gloves

Applicable for example are gloves of KCL GmbH, D 36124 Eichenzell, e-mail: vertrieb@kcl.de with following specification (Laboratory test according EN 374)

Recommend protective glove:

Article / Name /Material / Thickness Material / Breakthrough Time Remarks

Nr. 730/ Camatril Velours / Nitril / 0,4 mm Level 6 > 480 min. by full contact

Nr. 743/ Dermatril / Nitril / 0,2 mm Level 2 > 30 min. by splash contact

This recommendation is only for the product delivered by us and its intended purpose.

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- **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:** Use safety eyewear designed to protect against splash of liquids.
 - **Body protection:**
Working clothes must not consist of textiles which show a dangerous melting behaviour in case of fire.
All parts of the skin should be washed after contact.
-

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form: Solid according ADR Annex 2.3.4 or ASTM D 4359-90
 - Colour: according to the tradename of the product
- **Smell:** characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
 - Melting point/Melting range: not determined
 - Flash point: > 100 °C
- **Inflammability (solid, gaseous)** Not applicable.
- **Ignition temperature:**
 - Decomposition temperature: Not determined.
- **Self-inflammability:** Not determined.
- **Danger of explosion:** Not determined.
- **Critical values for explosion:**
 - Lower: approx. Not determined.
 - Upper: approx. Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C** 1.04 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
 - Water: partly or not miscible
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - dynamic: Not determined.
 - kinematic: Not determined.
- **Organic solvents:** < 0.1 %
- **Water:** < 0.06 %
- **Solid content:** 55.0 %

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

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No further relevant information available.
- **10.3 Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions (see section 7).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Keep well away from oxidising agents and strongly alkaline or strongly acid materials in order to avoid exothermic reactions.
- **10.6 Hazardous decomposition products:**
Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide and smoke.

SECTION 11: Toxicological information

The Preparation is classified according to the conventional method (calculation method of the EC-directive 1999/45/EC). Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in skin dryness. The product may be absorbed through the skin.
The liquid splashed in the eyes may cause irritation and reversible damage.

- **11.1 Information on toxicological effects**
- **Acute toxicity:** No data available

SECTION 12: Ecological information

The Product should not be allowed to enter drains of water courses or soil.

- **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.
- **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** Do not allow to enter drains.
- **European waste catalogue** 08 03 13: waste ink other than those mentioned in 08 03 12
- **Uncleaned packagings:** Waste

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· **Recommendation:**

Emptied containers should be disposed off into scrap recycling or reconditioning respectively.
Not orderly emptied cans and ink remnants are special waste.

SECTION 14: Transport information

Not classified according to transport regulations for dangerous goods (like ADR/RID, IMDG and ICAO/IATA).

- **14.1 UN-Number**
· ADR, ADN, IMDG, IATA -
- **14.2 UN proper shipping name**
· ADR, ADN, IMDG, IATA -
- **14.3 Transport hazard class(es)**
· ADR, ADN, IMDG, IATA -
- **Class** -
- **14.4 Packing group**
· ADR, IMDG, IATA -
- **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.

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **VOC-Content (EU):** 0.06 %
- **Swiss VOC-Regulation** 0.00 %
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information on this Safety Data Sheet is based on the present state of our knowledge and on current EU and national laws. The user's working conditions are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the product's properties.



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No further relevant information available.
- **Application of the substance / the mixture** Printing inks

- **1.3 Details of the supplier of the safety data sheet**

Manufacturer/Supplier:
hubergroup Deutschland GmbH
Feldkirchener Str. 15

Telefon: 089-9003-444
bzw. -390
Telefax: 089-9003-505

85551 Kirchheim

- **Informing department:**
Product Safety hubergroup.
Contact: Dr. Sebastian Gierisch
Telefon: + 49 89-9003-444
Telefax: + 49 89-9003-505
E-mail: product-safety@mhm.de

- **1.4 Emergency telephone number:**

During general business hours: Product Safety Division, Extension 220 or 444

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Not a hazardous substance or preparation according to EC-Directives 67/548/EEC or 1999/45/EC.
- **Information concerning particular hazards for human and environment:** none

- **2.2 Label elements**

- **Labelling according to EU guidelines:**
Observe the normal safety regulations when handling chemicals
Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.
- **Special labelling of certain preparations:**
Contains tert-Butylhydroquinone, Cobalt(II) 2-ethylhexanoate. May produce an allergic reaction.
- **2.3 Other hazards** This information is provided by the present Material Safety Data Sheet.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Dangerous components:** not relevant
- **Additional information** For the wording of the listed risk phrases refer to section 16.

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SECTION 4: First aid measures**4.1 Description of first aid measures**

- **General information** In all cases of doubt, or when symptoms persist, seek medical advice.

- **After inhalation** Remove to fresh air.

- **After skin contact**

Remove contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

- **After eye contact**

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses. Obtain medical attention.

- **After swallowing** Do NOT induce vomiting. Obtain medical attention.

- **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 agents** Alcohol resistant foam, CO₂, powders, water spray.

- **For safety reasons unsuitable extinguishing agents** Water jet.

- **5.2 Special hazards arising from the substance or mixture**

Appropriate breathing apparatus may be required.

Cool closed containers exposed to fire with water.

- **5.3 Advice for firefighters**

- **Protective equipment:** No special measures required.

- **Additional information** Collect run-off from fire fighting.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ventilate the area.

- **6.2 Environmental precautions:**

Do not allow to enter drains. If the product contaminates rivers and lakes or sewers inform respective authorities.

- **6.3 Methods and material for containment and cleaning up:**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations. Clean preferably with a detergent. Avoid use of solvents.

- **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.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Comply with health and safety at work laws. Avoid concentrations higher than the occupational exposure limits (see Section 8), if applicable.

· Information about protection against explosions and fires:

Clothes and rags contaminated with ink, lacquer or oxidatively drying oil may cause self ignition. Keep them in closed and fireproof containers.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by storerooms and containers:

Keep container tightly closed. No smoking.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

· Further information about storage conditions:

Always keep in containers of the same material as the original one. Store in a dry, well ventilated place. Keep away from heat and direct sunlight. Store in accordance with the particular national regulations concerning water pollution.

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

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical systems:

If relevant apply technical measures to comply with the occupational exposure limits. This can be by a good general extraction and-if practically feasible, be achieved by local exhaust ventilation.

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

Numerical data - if specified - are taken from the valid national lists.

· 8.2 Exposure controls

· Personal protective equipment

· Breathing equipment: With good ventilation is not required.

· Protection of hands:

For prolonged or repeated contact use gloves.

Barrier creams may help to protect exposed skin, they should however not be applied once have come into contact with the product.

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

· Material of gloves

Applicable for example are gloves of KCL GmbH, D 36124 Eichenzell, e-mail: vertrieb@kcl.de with following specification (Laboratory test according EN 374)

Recommend protective glove:

Article / Name /Material / Thickness Material / Breakthrough Time Remarks

Nr. 730/ Camatril Velours / Nitril / 0,4 mm Level 6 > 480 min. by full contact

Nr. 743/ Dermatril / Nitril / 0,2 mm Level 2 > 30 min. by splash contact

This recommendation is only for the product delivered by us and its intended purpose.

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- **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:** Use safety eyewear designed to protect against splash of liquids.

- **Body protection:**

Working clothes must not consist of textiles which show a dangerous melting behaviour in case of fire. All parts of the skin should be washed after contact.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Solid according ADR Annex 2.3.4 or ASTM D 4359-90
Colour: according to the tradename of the product

- **Smell:** characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range: not determined

- **Flash point:** > 100 °C

- **Inflammability (solid, gaseous)** Not applicable.

- **Ignition temperature:**

Decomposition temperature: Not determined.

- **Self-inflammability:** Not determined.

- **Danger of explosion:** Not determined.

- **Critical values for explosion:**

Lower: approx. Not determined.

Upper: approx. Not determined.

- **Vapour pressure:** Not determined.

- **Density at 20 °C** 1.04 g/cm³

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

Water: partly or not miscible

- **Partition coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

dynamic: Not determined.

kinematic: Not determined.

Organic solvents: < 0.1 %

Water: < 0.06 %

Solid content: 55.0 %

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

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No further relevant information available.
- **10.3 Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions (see section 7).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Keep well away from oxidising agents and strongly alkaline or strongly acid materials in order to avoid exothermic reactions.
- **10.6 Hazardous decomposition products:**
Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide and smoke.

SECTION 11: Toxicological information

The Preparation is classified according to the conventional method (calculation method of the EC-directive 1999/45/EC). Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in skin dryness. The product may be absorbed through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

- **11.1 Information on toxicological effects**
- **Acute toxicity:** No data available

SECTION 12: Ecological information

The Product should not be allowed to enter drains of water courses or soil.

- **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.
- **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** Do not allow to enter drains.
- **European waste catalogue** 08 03 13: waste ink other than those mentioned in 08 03 12
- **Uncleaned packagings:** Waste

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· Recommendation:

Emptied containers should be disposed off into scrap recycling or reconditioning respectively.
Not orderly emptied cans and ink remnants are special waste.

SECTION 14: Transport information

Not classified according to transport regulations for dangerous goods (like ADR/RID, IMDG and ICAO/IATA).

- **14.1 UN-Number**
 - **ADR, ADN, IMDG, IATA** -
 - **14.2 UN proper shipping name**
 - **ADR, ADN, IMDG, IATA** -
 - **14.3 Transport hazard class(es)**
 - **ADR, ADN, IMDG, IATA**
 - **Class** -
 - **14.4 Packing group**
 - **ADR, IMDG, IATA** -
 - **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.
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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **National regulations**
 - **VOC-Content (EU):** 0.06 %
 - **Swiss VOC-Regulation** 0.00 %
 - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
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SECTION 16: Other information

The information on this Safety Data Sheet is based on the present state of our knowledge and on current EU and national laws. The user's working conditions are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the product's properties.
