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MSDS #: MSDS (ITEM # 18396)

# MATERIAL SAFETY DATA SHEET

According to 1907/2006/EC

## SECTION 1: PRODUCT IDENTIFICATION

Product: HIGHLIGHTER WITH CLIP ASST 5PK - Green

MSDS CODE: [ITEM #18396]

Ink: Dokumental, CF 5810 GREEN

DATE ISSUED: 2011-4-20

## SECTION 2: HAZARDS IDENTIFICATION

· **Hazard description:** Not applicable.

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

The product does not have to be labeled 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.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

· **Chemical characterization**

Mixture of the following substances, containing non-hazardous substances and coloring agents.

· **Description:**

All ingredients as listed below are pre-registered according to 1907/2006/EC. For pre-registration numbers refer to the list attached to this MSDS.

· **Dangerous components:**

Name	CAS#	Conc.	R-phrase
potassium carbonate	584-08-7	2.5-10%	Xn,  Xi; R 22-36

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

## SECTION 4: FIRST AID MEASURES

· **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. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

## SECTION 5: FIRE FIGHTING MEASURES

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
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 enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

## SECTION 7: HANDLING AND STORAGE

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **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.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **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.
- **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
- **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.
- (· **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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **General Information**  
**Form:** Fluid  
**Color:** According to product specification  
**Odor:** Characteristic
- Important information on protection of health and environment and on safety:**  
Not applicable
- **Change in condition**  
**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 100°C
- **Flash point:** not applicable

- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapor pressure at 20°C:** 23 hPa
- **Density at 20°C:** Not determined.
- **Solubility in / Miscibility with water:** Fully miscible.
- **Viscosity: Dynamic at 20°C:** 8 mPas
- **Solvent content: Organic solvents:** 0.1 %
- **Solids content:** 5.4 %

#### SECTION 10: STABILITY AND REACTIVITY

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

#### SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute toxicity:**
  - **Primary irritant effect:**
  - **On the skin:** No irritant effect.
  - **On the eye:** No irritating effect.
  - **Sensitization:** No sensitizing effects known.
- .Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.  
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

#### SECTION 12: ECOLOGICAL INFORMATION

- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### SECTION 13: DISPOSAL CONSIDERATIONS

- **Product:**
- **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

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Packaging group:** N.A

#### SECTION 15: REGULATORY INFORMATION

- **Labeling according to EU guidelines:**  
Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Water-hazard class:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water.

#### SECTION 16: OTHER INFORMATION

*All information contained in this Material Safety Data Sheet is provided to the best of the knowledge. No warranty is made with respect to this information, expressed or implied, including warranties of merchantability or fitness for a particular purpose. Users are responsible for verifying the information under their own operating conditions to determine whether the products listed in the MSDS are suitable for their intended use. The information contained herein is confidential, intended solely for the user's internal use and may not be provided to any third parties. Users are responsible for compliance with all laws and regulations as may be required by their receipt of the information and use of the products provided with this MSDS.*

*This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 1907/2006/EC.*

# MATERIAL SAFETY DATA SHEET

According to 1907/2006/EC

## SECTION 1: PRODUCT IDENTIFICATION

**Product:** HIGHLIGHTER WITH CLIP ASST 5PK - Pink

**MSDS CODE:** [ITEM #18396]

**Ink:** SHANGHAI UNIVERSITY, FT-P-P PINK

**DATE ISSUED:** 2011-4-20

## SECTION 2: HAZARDS IDENTIFICATION

· **Hazard description:** Not applicable.

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

The product does not have to be labeled 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.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

· **Chemical characterization**

Mixture of the following substances, containing non-hazardous substances and coloring agents.

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

· **Dangerous components:**

Name	CAS#	Conc.
GLYCOL	56-81-5	25%

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

## SECTION 4: FIRST AID MEASURES

· **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. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

## SECTION 5: FIRE FIGHTING MEASURES

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

· **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

· **Measures for environmental protection:**

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 enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

## SECTION 7: HANDLING AND STORAGE

· **Handling:**

· **Information for safe handling:** No special measures required.

· **Information about fire - and explosion protection:** No special measures required.

· **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.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **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.

- **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

- **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.

- **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:** Goggles recommended during refilling.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **General Information**

**Form:** Fluid

**Color:** According to product specification

**Odor:** Characteristic

- **Important information on protection of health and environment and on safety:**

Not applicable

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 100°C

- **Flash point:** : >85°C

- **Self-igniting:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Vapor pressure at 20°C:** N.A

- **Density at 20°C:** Not determined.

- **Solubility in / Miscibility with water:** Fully miscible.

- **Viscosity: Dynamic at 20°C:** 3 mPas

- **Solvent content: Organic solvents:** NA.

- **Solids content:** NA.

## SECTION 10: STABILITY AND REACTIVITY

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous decomposition products:** No dangerous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute toxicity:**

- **Primary irritant effect:**

- **On the skin:** No irritant effect.

- **On the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

**.Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

**SECTION 12: ECOLOGICAL INFORMATION**

**General notes:** Generally not hazardous for water.

**SECTION 13: DISPOSAL CONSIDERATIONS**

- **Product:**
- **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**

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Packaging group:** N.A

**SECTION 15: REGULATORY INFORMATION**

- **Labeling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

- **Water-hazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

**SECTION 16: OTHER INFORMATION**

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*This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 1907/2006/EC.*

# MATERIAL SAFETY DATA SHEET

*According to 1907/2006/EC*

## SECTION 1: PRODUCT IDENTIFICATION

**Product:** HIGHLIGHTER WITH CLIP ASST 5PK - Blue

**MSDS CODE:** [ITEM #18396]

**Ink:** Dokumental, CF 5850 BLUE

**DATE ISSUED:** 2011-4-20

## SECTION 2: HAZARDS IDENTIFICATION

· **Hazard description:** Not applicable.

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

The product does not have to be labeled 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.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

· **Chemical characterization**

Mixture of the following substances, containing non-hazardous substances and coloring agents.

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

· **Dangerous components:** Void

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

## SECTION 4: FIRST AID MEASURES

· **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. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

## SECTION 5: FIRE FIGHTING MEASURES

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

· **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

· **Measures for environmental protection:**

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 enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

## SECTION 7: HANDLING AND STORAGE

· **Handling:**

· **Information for safe handling:** No special measures required.

· **Information about fire - and explosion protection:** No special measures required.

· **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.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **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.

- **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

- **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.

- (· **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:** Goggles recommended during refilling.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **General Information**

**Form:** Fluid

**Color:** According to product specification

**Odor:** Characteristic

**Important information on protection of health and environment and on safety:**

Not applicable

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 100°C

- **Flash point:** not applicable

- **Self-igniting:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Vapor pressure at 20°C:** 23 hPa

- **Density at 20°C:** Not determined.

- **Solubility in / Miscibility with water:** Fully miscible.

- **Viscosity: Dynamic at 20°C:** 3 mPas

- **Solvent content: Organic solvents:** 0.1 %

- **Solids content:** 0.4 %

## SECTION 10: STABILITY AND REACTIVITY

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous decomposition products:** No dangerous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute toxicity:**

- **Primary irritant effect:**

- **On the skin:** No irritant effect.

- **On the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

**.Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

#### SECTION 12: ECOLOGICAL INFORMATION

**General notes:** Generally not hazardous for water.

#### SECTION 13: DISPOSAL CONSIDERATIONS

- **Product:**
- **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

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Packaging group:** N.A

#### SECTION 15: REGULATORY INFORMATION

· **Labeling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

· **Water-hazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

#### SECTION 16: OTHER INFORMATION

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*This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 1907/2006/EC.*

# MATERIAL SAFETY DATA SHEET

According to 1907/2006/EC

## SECTION 1: PRODUCT IDENTIFICATION

**Product:** HIGHLIGHTER WITH CLIP ASST 5PK - Orange

**MSDS CODE:** [ITEM #18396]

**Ink:** SHANGHAI UNIVERSITY, FT-48-O-02 ORANGE

**DATE ISSUED:** 2011-4-20

## SECTION 2: HAZARDS IDENTIFICATION

· **Hazard description:** Not applicable.

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

The product does not have to be labeled 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.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

· **Chemical characterization**

Mixture of the following substances, containing non-hazardous substances and coloring agents.

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

· **Dangerous components:**

Name	CAS#	Conc.
GLYCOL	56-81-5	25%

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

## SECTION 4: FIRST AID MEASURES

· **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. Then consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

## SECTION 5: FIRE FIGHTING MEASURES

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

· **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

· **Measures for environmental protection:**

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 enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

## SECTION 7: HANDLING AND STORAGE

· **Handling:**

· **Information for safe handling:** No special measures required.

· **Information about fire - and explosion protection:** No special measures required.

· **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.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **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.

- **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

- **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.

- **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:** Goggles recommended during refilling.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **General Information**

**Form:** Fluid

**Color:** According to product specification

**Odor:** Characteristic

- **Important information on protection of health and environment and on safety:**

Not applicable

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 100°C

- **Flash point:** : >85°C

- **Self-igniting:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Vapor pressure at 20°C:** N.A

- **Density at 20°C:** Not determined.

- **Solubility in / Miscibility with water:** Fully miscible.

- **Viscosity: Dynamic at 20°C:** 3 mPas

- **Solvent content: Organic solvents:** NA.

- **Solids content:** NA.

## SECTION 10: STABILITY AND REACTIVITY

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous decomposition products:** No dangerous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute toxicity:**

- **Primary irritant effect:**

- **On the skin:** No irritant effect.

- **On the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

**.Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

**SECTION 12: ECOLOGICAL INFORMATION**

**General notes:** Generally not hazardous for water.

**SECTION 13: DISPOSAL CONSIDERATIONS**

- **Product:**
- **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**

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Packaging group:** N.A

**SECTION 15: REGULATORY INFORMATION**

- **Labeling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

- **Water-hazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

**SECTION 16: OTHER INFORMATION**

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*This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 1907/2006/EC.*

# MATERIAL SAFETY DATA SHEET

According to 1907/2006/EC

## SECTION 1: PRODUCT IDENTIFICATION

**Product:** HIGHLIGHTER WITH CLIP ASST 5PK - Yellow

**MSDS CODE:** [ITEM #18396]

**Ink:** SHANGHAI UNIVERSITY, FT-Y-P YELLOW

**DATE ISSUED:** 2011-4-20

## SECTION 2: HAZARDS IDENTIFICATION

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have to be labeled 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.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- **Chemical characterization**  
Mixture of the following substances, containing non-hazardous substances and coloring agents.
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:**

Name	CAS#	Conc.
GLYCOL	56-81-5	25%
- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## SECTION 4: FIRST AID MEASURES

- **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. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

## SECTION 5: FIRE FIGHTING MEASURES

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
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 enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

## SECTION 7: HANDLING AND STORAGE

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.

- **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.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **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.

- **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

- **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.

- **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:** Goggles recommended during refilling.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **General Information**

**Form:** Fluid

**Color:** According to product specification

**Odor:** Characteristic

- **Important information on protection of health and environment and on safety:**

Not applicable

- **Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 100°C

- **Flash point:** : >85°C

- **Self-igniting:** Product is not self-igniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Vapor pressure at 20°C:** N.A

- **Density at 20°C:** Not determined.

- **Solubility in / Miscibility with water:** Fully miscible.

- **Viscosity: Dynamic at 20°C:** 3 mPas

- **Solvent content: Organic solvents:** NA.

- **Solids content:** NA.

## SECTION 10: STABILITY AND REACTIVITY

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

- **Dangerous reactions** No dangerous reactions known.

- **Dangerous decomposition products:** No dangerous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute toxicity:**

- **Primary irritant effect:**

- **On the skin:** No irritant effect.

- **On the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

**.Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### SECTION 12: ECOLOGICAL INFORMATION

**General notes:** Generally not hazardous for water.

### SECTION 13: DISPOSAL CONSIDERATIONS

- **Product:**
- **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

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Packaging group:** N.A

### SECTION 15: REGULATORY INFORMATION

· **Labeling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

· **Water-hazard class:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

### SECTION 16: OTHER INFORMATION

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