

okumental power your pen

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

- 1.1 Product identifier
- Trade name: 70-44-D green
- Registration number
- The ingredients of this ink have been pre-registered according to 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 water based fibrepen ink
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

SHANGHAI DOKUMENTAL INK Co. Ltd. No.18-3, Maojia Road Luodian Town, Baoshan District

Shanghai 201908 , P.R. China Tel.: 86-021-66864551

Further information obtainable from:

Ms. Cindy Song Email: cindy.song@dokumental.cn

1.4 Emergency telephone number:

Mr. Bruce Gindelberger

Tel.: mobile +86-13917914495

Email:bruce.gindelberger@dokumental.cn

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
- 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
- Mixture of the following substances, containing non-hazardous substances and colouring agents. **Description:** Mixture of substances listed below with nonhazardous additions.
- Dangerous components: none
- Additional information: For the wording of the listed risk 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.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions
- 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.

(Contd. on page 2)

(Contd. of page 1)

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

No dangerous substances are released.

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.
- 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 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

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 the resistance of the glove material can not be calculated in advance and has therefore substances, 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

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:

Form:

Colour:

Odour:

Odour threshold:

Fluid

According to product specification

Product specific

Not determined.

Important information on protection of health and environment, and on safety.

(Contd. on page 3)

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· pH-value at 20 °C:	8,7
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C
· Flash point:	101 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	400 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure at 20 °C:	23 hPa
 Density: Relative density Vapour density Evaporation rate 	Not determined. Not determined. Not determined. Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity: Dynamic at 20 °C: Kinematic:	6,2 mPas Not determined.
· Solvent content: Organic solvents: Water:	0,6 % 46,0 %
Solids content: · 9.2 Other information	20,7 % 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
- 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 (carcinogenity, 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.

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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 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.

- 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	
· 14.1 UN-Number	
· ADR, ADN, IMDG, IATA	not applicable
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	not applicable
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	not applicable
· 14.4 Packing group	
· ADR, IMDG, IATA	not applicable
· 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	f
Marpol and the IBC Code	Not applicable.
· UN "Model Regulation":	not applicable

SECTION 15: Regulatory information

- \cdot 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	<u>≤</u> 1.0

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

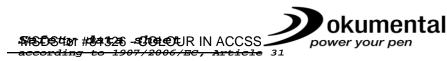
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation

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ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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)

PBT: Persistent, Bioaccumulative and Toxic

VPVB: very Persistent and very Bioaccumulative

* Data Compared to the previous version altered.

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

- · Product identifier
- · Trade name: 70-44-F Orange
- · Registration number
- The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
- Relevant identified uses of the substance or mixture and uses advised against
- Currently no such applications are identified

 Application of the substance / the preparation water based fibrepen ink
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SHANGHAI DOKUMENTAL INK Co. Ltd. No. 38 Lane 451 Mao Jia Road Luodian Town, Baoshan District Shanghai 201908 , P.R. China Tel.: 86-21-66864551 / 66864542

· Further information obtainable from:

Ms. Cindy Song

Email: cindy.song@dokumental.cn

Emergency telephone number:

Mr. Bruce Gindelberger Tel.: mobile +86-13917914495

Email:bruce.gindelberger@dokumental.cn

2 Hazards identification

- Classification of the substance or mixture
- 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 ${\it EU}$ " 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.

- · Label elements
- · Labelling 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).

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Mixture of the following substances, containing non-hazardous substances and colouring 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.

4 First aid measures

- · 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.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed

No further relevant information available

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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Version number

Trade name: 70-44-F Orange

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5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · 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.
- 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.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 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.
- · 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

· 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

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Trade name: 70-44-F Orange

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Information on basic physical and chemical prop	perties
General Information Appearance:	
Form:	Fluid
Colour:	Orange
Odour:	Product specific
Odour threshold:	Not determined.
Important information on protection of health	and
environment, and on safety.	=
	-
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C
Flash point:	101°C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	371°C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	2,6 Vol %
Upper:	12,6 Vol %
Vapour pressure at 20°C:	23 hPa
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	/ / /
water:	Fully miscible.
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	7.7 4.0
Organic solvents:	11,4 % 35,9 %

No further relevant information available.

10 Stability and reactivity

Solids content: · Other information

- Reactivity
- Chemical stability

- Thermal decomposition / conditions to be avoided:
 No decomposition if used according to specifications.
 Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
 on the eye: No irritating effect.
- $\textbf{Sensitization:} \ \textit{No sensitizing effects known.}$

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EU

SISTEM #84326 -SIGHETUR IN ACCSSORIES

Shanghai Dokumental Ink Co. Ltd

inting date 07.03.2011 Revision: 07.03.2011

Trade name: 70-44-F Orange

· Additional toxicological information:

(Contd. of page 3)

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.

12 Ecological information

- · Toxicity
- · Acquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional 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.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · 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.

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:
- · Special precautions for user Not applicable
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	10-25

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

 \cdot * Data compared to the previous version altered.

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ISO/DIS

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

- Trade name: 70-44-0 Pink
- Relevant identified uses of the substance or mixture and uses advised against
- Currently no such applications are identified Application of the substance / the preparation water based fibrepen ink
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

SHANGHAI DOKUMENTAL INK Co. Ltd. No. 38 Lane 451 Mao Jia Road Luodian Town, Baoshan District Shanghai 201908, P.R. China Tel.: 86-21-66864551 / 66864542

Information department:

Ms. Cindy Song

Email: cindy.song@dokumental.cn

Emergency telephone number:

Mr. Bruce Gindelburger

Tel.: mobile +86-13917914495

bruce.gindelberger@dokumental.cn

24-hour-Emergency- Telephone-Number (GBK Contract ID: 94050): (001) 352 323 3500

2 Composition/information on ingredients

- Chemical characterization: Mixtures
- Mixture of the following substances, containing non-hazardous substances and colouring agents.
- Description: Mixture of the substances listed below with nonhazardous additions.
- Dangerous components: Void
- Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- · Classification of the substance or mixture
- · 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 was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations according to directives on hazardous materials.

- Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 1 Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 0Fire = Reactivity = 0

4 First aid measures

- $\textbf{\textit{General information:}} \ \textit{No special measures required.}$
- 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.

USA

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ISO/DIS Trade name: 70-44-0 Pink

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5 Firefighting measures

- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections
- No dangerous substances are released.
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- Handling:
- Precautions for safe handling
- No special measures required.
- Ensure good ventilation/exhaustion at the workplace
- Information about protection against explosions and fires: 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.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace:

57-55-6 propane-1,2-diol (10-25%)

WEEL 10 mg/m³

- Additional information: The lists that were valid during the creation were used as basis.
- Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed. Breathing equipment: 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.

9 Physical and chemical properties

- General Information Appearance:
- Form: Color Odor:

Fluid

Product specific

(Contd. on page 3)

MISDISTICIONE 1 SZECTECTOL CRURCIAN ARTICESSIO RIES

ISO/DIS 11014 Trade name: 70-44-0 Pink

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· Odour threshold:	Not determined.
 Important information on protection of health environment, and on safety. 	and -
· pH-value:	Not determined.
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100°C (212 °F)
· Flash point:	101°C (214 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	371°C (700 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
 Explosion limits: Lower: Upper: Vapor pressure at 20°C (68 °F): 	2.6 Vol % 12.6 Vol % 23 hPa (17 mm Hq)
· Density: · Relative density · Vapour density · Evaporation rate	Not determined. Not determined. Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Segregation coefficient (n-octonol/water):	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents: Water:	13.0 % 31.4 %
Solids content: · Other information	4 % No further relevant information available.

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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 internally approved calculation methods for preparations:

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

12 Ecological information

- Acquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems: Bioaccumulative potential No further relevant information available.
- Additional ecological information:
- General notes:

Water hazard class 3 (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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AMESDESTE GIGHTB1\$25E@DOLORURCHAN ASSIGNESSIORIES

to ISO/DIS 11014

Trade name: 70-44-0 Pink

Danger to drinking water if even extremely small quantities leak into the ground.

(Contd. of page 3)

13 Disposal considerations

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

14 Transport information

- DOT regulations:
- · Hazard class:
- · 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:

15 Regulatory information

- · Sara
- Section 355 (extremely hazardous substances):
 - None of the ingredient is listed.
 - · Section 313 (Specific toxic chemical listings):
 - None of the ingredients is listed.
 - · TSCA (Toxic Substances Control Act):
- All ingredients are listed.
 - Proposition 65
- · Chemicals known to cause cancer:
 - None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for females:
 - None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for males:
 - None of the ingredients is listed.
- Chemicals known to cause developmental toxicity:
 - None of the ingredients is listed.
- · Cancerogenity categories
- EPA (Environmental Protection Agency)
- None of the ingredients is listed.
- IARC (International Agency for Research on Cancer)
- None of the ingredients is listed.
- NTP (National Toxicology Program)
 - None of the ingredients is listed.
- TLV (Threshold Limit Value established by ACGIH)
- 67-63-0 propan-2-ol

A4

- MAK (German Maximum Workplace Concentration)
 - None of the ingredients is listed.
 - NIOSH-Ca (National Institute for Occupational Safety and Health)
 - None of the ingredients is listed.
 - OSHA-Ca (Occupational Safety & Health Administration)
 - None of the ingredients is listed.
 - Product related hazard informations:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

(Contd. on page 5)



MISDSIGNAL SZECTOLOPURCIA ARTICESSIORIES to ISO/DIS 11014

Trade name: 70-44-0 Pink

· National regulations:

(Contd. of page 4)

- · Technical instructions (air):

Class	Share in %
NK	10-25

· Water hazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

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.

 \cdot * Data compared to the previous version altered.

power your pen

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

- · Product identifier
- · Trade name: 70-44-H Purple
- Registration number
- The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
- Relevant identified uses of the substance or mixture and uses advised against Currently no such applications are identified
- · Application of the substance / the preparation water based fibrepen ink
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SHANGHAI DOKUMENTAL INK Co. Ltd. No. 38 Lane 451 Mao Jia Road Luodian Town, Baoshan District Shanghai 201908 , P.R. China Tel.: 86-21-66864551 / 66864542

· Further information obtainable from:

Ms. Cindy Song

Email: cindy.song@dokumental.cn

Emergency telephone number:

Mr. Bruce Gindelberger Tel.: mobile +86-13917914495 Email:bruce.gindelberger@dokumental.cn GBK Gefahrgut Büro GmbH ++49 (0) 6132 / 84463 Ingelheim, Deutschland

2 Hazards identification

- · Classification of the substance or mixture
- · 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.

- · Label elements
- · Labelling 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).

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Mixture of the following substances, containing non-hazardous substances and colouring 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.

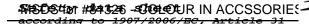
4 First aid measures

- 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.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed

No further relevant information available

(Contd. on page 2)

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Trade name: 70-44-H Purple

Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Contd. of page 1)

5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

power your pen

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions:

- Dilute with plenty of water.
 Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- 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.
- 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.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- 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.
- 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

· 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.

(Contd. on page 3)



power your pen

Trade name: 70-44-H Purple

· Eye protection: Goggles recommended during refilling

(Contd. of page 2)

Information on basic physical and chemical pro-	operties
General Information	
Appearance:	
Form:	Fluid
Colour:	Violet
Odour:	Product specific
Odour threshold:	Not determined.
Important information on protection of health	and
environment, and on safety.	=
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C
Flash point:	101 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	371 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Not determined.
Explosion limits:	
Lower:	2,6 Vol %
Upper:	12,6 Vol %
Vapour pressure at 20 °C:	23 hPa
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	***
Organic solvents:	12,2 %
Water:	12,2 % 38,3 %
	•
Solids content:	8,0 %

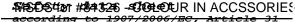
10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:on the skin: No irritant effect.

(Contd. on page 4)



Trade name: 70-44-H Purple

(Contd. of page 3)

- 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.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional 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.

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- 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.

4 Transport information	
· UN-Number	<u> </u>
· ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Anne.	x II of
MARPOL73/78 and the IBC Code	Not applicable.

15 Regulatory information

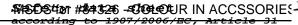
- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	10-25

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 5)

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okumental power your pen

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Trade name: 70-44-H Purple

(Contd. of page 4)

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.

· * Data compared to the previous version altered.

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

- · Product identifier
- · Trade name: 70-44-B red
- · Registration number
- The ingredients of this ink have been pre-registered according to 1907/2006/EC (REACH)
- Relevant identified uses of the substance or mixture and uses advised against
- Currently no such applications are identified

 Application of the substance / the preparation water based fibrepen ink
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

SHANGHAI DOKUMENTAL INK Co. Ltd. No. 38 Lane 451 Mao Jia Road Luodian Town, Baoshan District Shanghai 201908 , P.R. China Tel.: 86-21-66864551 / 66864542

· Further information obtainable from:

Ms. Cindy Song

Email: cindy.song@dokumental.cn

Emergency telephone number:

Mr. Bruce Gindelberger Tel.: mobile +86-13917914495

Email:bruce.gindelberger@dokumental.cn

2 Hazards identification

- Classification of the substance or mixture
- 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 ${\it EU}$ " 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.

- · Label elements
- · Labelling 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).

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Mixture of the following substances, containing non-hazardous substances and colouring 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.

4 First aid measures

- · 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.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed

No further relevant information available

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

(Contd. on page 2)

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Vergion number

Trade name: 70-44-B red

(Contd. of page 1)

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · 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.
- 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.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · 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.
- · 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

· 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

(Contd. on page 3)

\$48008401 #84326 - 4004-04UR IN ACCSSORIES to 1907/2006/EC, A:

Trade name: 70-44-B red

(Contd. of page 2)

Information on basic physical and chemical prop	perties
General Information	
Appearance:	
Form:	Fluid
Colour:	Red
Odour:	Product specific
Odour threshold:	Not determined.
Important information on protection of health a	and
environment, and on safety.	-
	=
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C
Flash point:	101°C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	371°C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	2,6 Vol %
Upper:	12,6 Vol %
Vapour pressure at 20°C:	23 hPa
Density:	Not determined.
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Fully miscible.
Segregation coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content: Organic solvents:	11,5 %
Organic solvents: Water:	
	36,5 %
Solids content:	13.0 %

10 Stability and reactivity

- Reactivity
- Chemical stability

- Thermal decomposition / conditions to be avoided:
 No decomposition if used according to specifications.
 Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- $\cdot \ \textit{Hazardous decomposition products:} \ \textit{No dangerous decomposition products known}.$

11 Toxicological information

- \cdot Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
 on the skin: No irritant effect.
 on the eye: No irritating effect.
- $\textbf{Sensitization:} \ \textit{No sensitizing effects known.}$

(Contd. on page 4)

Shanghai Dokumental Ink Co. Ltd

inting date 03.03.2011

Trade name: 70-44-B red

· Additional toxicological information:

(Contd. of page 3)

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

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

12 Ecological information

- · Toxicity
- · Acquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- 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.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · 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.

14 Transport information

- · Land transport ADR/RID (cross-border)
- · ADR/RID class:
- · Maritime transport IMDG:
- · IMDG Class:
- \cdot Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class:
- Packaging group:
- · Special precautions for user Not applicable
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Technical instructions (air):

Class	Share in %
NK	10-25

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

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.

 \cdot * Data compared to the previous version altered.

EU

okumental power your pen

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

- 1.1 Product identifier
- Trade name: 70-44-E yellow
- Registration number
- The ingredients of this ink have been pre-registered according to 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 water based fibrepen ink
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

SHANGHAI DOKUMENTAL INK Co. Ltd. No.18-3, Maojia Road Luodian Town, Baoshan District

Shanghai 201908 , P.R. China Tel.: 86-021-66864551

Further information obtainable from:

Ms. Cindy Song

Email: cindy.song@dokumental.cn

1.4 Emergency telephone number:

Mr. Bruce Gindelberger

Tel.: mobile +86-13917914495

Email:bruce.gindelberger@dokumental.cn

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
- 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
- Mixture of the following substances, containing non-hazardous substances and colouring agents. **Description:** Mixture of substances listed below with nonhazardous additions.
- Dangerous components: none
- Additional information: For the wording of the listed risk 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.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions
- 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.

(Contd. on page 2)

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(Contd. of page 1)

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

No dangerous substances are released.

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.
- 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 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

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 the resistance of the glove material can not be calculated in advance and has therefore substances, 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

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:

Odour:

Form:

Colour:

Odour threshold:

Fluid

According to product specification

Product specific

Not determined.

Important information on protection of health and environment, and on safety.

> (Contd. on page 3) EII

	(Contd. of page
· pH-value at 20 °C:	8,7
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C
· Flash point:	101 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	400 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapour pressure at 20 °C:	23 hPa
· Density: · Relative density · Vapour density · Evaporation rate	Not determined. Not determined. Not determined. Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity: Dynamic at 20 °C: Kinematic:	6,2 mPas Not determined.
· Solvent content: Organic solvents: Water:	0,3 % 56,0 %
Solids content: · 9.2 Other information	20,7 % 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
- 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 (carcinogenity, 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.

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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 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.

- 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		
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	not applicable	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	not applicable	
 14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class 	not applicable	
· 14.4 Packing group · ADR, IMDG, IATA	not applicable	
· 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 Marpol and the IBC Code 	Not applicable.	
· UN "Model Regulation":	not applicable	

SECTION 15: Regulatory information

- \cdot 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	<u>≤</u> 1.0

- · Waterhazard class: Water hazard class 1 (Self-assessment): slightly 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.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation

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ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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)

PBT: Persistent, Bioaccumulative and Toxic

VPVB: very Persistent and very Bioaccumulative

* Data Compared to the previous version altered.

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