

SDS Report

No.: CANEC2011324401

Date: 16 Jul 2020

Page 1 of 1

HUIZHOU SHI ZHONGZHIXINGSECAI KEJI SICENCEAND TECHNOLOGYCO.LTD

HUIZHOU CITY HUI CHENG DISTRICT MAQUN LIAO LU TAI PARK INDUSTRIAL PARK, THE FIRST FLOOR OF BUILDING D

SGS Job No. : CP20-034262
 Sample Name : Gravure water-based ink
 End Uses : Intaglio food packaging used for printing
 Composition/Ingredient of sample (as per client submission) : See *section 3 Composition/information on ingredients* on the SDS report
 Job Receiving Date : 08 Jul 2020
 SDS Preparation Period : 08 Jul 2020-16 Jul 2020

Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2015/830, and is provided per attached.

Remark:

The SDS is prepared based on the information provided by client.

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Zm guan
 Approved Signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services Co., Ltd.
 Guangzhou Branch Testing Center Chemical Laboratory.

198 Kezhu Road, Sciotech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 16.07.2020

Version number 1


Revision: 16.07.2020


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



- **1.1 Product identifier**
- **Trade name:** Gravure water-based ink
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Intaglio food packaging used for printing
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
HUIZHOU SHI ZHONGZHIXINGSECAI KEJI SICENCEAND TECHNOLOGYCO.LTD
- **Full address:**
HUIZHOU CITY HUI CHENG DISTRICT MAQUN LIAO LU TAI PARK INDUSTRIAL PARK, THE FIRST FLOOR OF BUILDING D
- **Phone number:** 0752-7778830
- **Email:** 850956136@qq.com
- **Only Representative / other EU contact point:** Not available
- **Further information obtainable from:**
HUIZHOU SHI ZHONGZHIXINGSECAI KEJI SICENCEAND TECHNOLOGYCO.LTD
- **1.4 Emergency telephone number:**
GERMANY
Poison Center Berlin - Institute of Toxicology
Tel: +49 030 192 40

13719699591 Miss Dong
- **1.5 Reference Number:** CANEC2011324401, CP20-034262

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
- 
GHS02 flame

 Flam. Liq. 2 H225 Highly flammable liquid and vapour.
- 
GHS07

 Skin Irrit. 2 H315 Causes skin irritation.
- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of Regulation (EC) No. 1272/2008.
- **Classification system:**
The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No. 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**
- 


 GHS02 GHS07
- **Signal word** *Danger*

(Contd. on page 2)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 16.07.2020

Version number 1

Revision: 16.07.2020

Trade name: Gravure water-based ink

(Contd. of page 1)

· Hazard statements*H225 Highly flammable liquid and vapour.**H315 Causes skin irritation.***· Precautionary statements***P101 If medical advice is needed, have product container or label at hand.**P102 Keep out of reach of children.**P103 Read label before use.**P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P240 Ground and bond container and receiving equipment.**P241 Use explosion-proof [electrical/ventilating/lighting] equipment.**P280 Wear protective gloves/protective clothing/eye protection/face protection.**P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***· 2.3 Other hazards:****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****· 3.2 Mixtures****· Description:***Mixture of the substances listed below with nonhazardous additions.**For the wording of the listed hazard statements refer to section 16.***· Composition:**

| | | |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----|
| CAS: 9010-77-9 | 2-Propenoic acid, polymer with ethene ⚠ Skin Irrit. 2, H315 | 38% |
| CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 | ethanol ⚠ Flam. Liq. 2, H225 | 20% |
| CAS: 7732-18-5 EINECS: 231-791-2 | Water | 20% |
| CAS: 10127-03-4 EINECS: 233-354-1 | 4,4'-[(3,3'-dimethoxy[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[3-hydroxy-N-phenylnaphthalene-2-carboxamide] | 15% |
| CAS: 68441-17-8 | Ethene, homopolymer, oxidized | 5% |
| CAS: 9006-65-9 | Dimethicone | 2% |

SECTION 4: First aid measures**· 4.1 Description of first aid measures****· General description:** Immediately remove any clothing soiled by the product.**· After inhalation:** In case of unconsciousness place patient stably in side position for transportation.**· After skin contact:** Immediately wash with water and soap and rinse thoroughly.**· 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.*

(Contd. on page 3)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 16.07.2020

Version number 1

Revision: 16.07.2020

Trade name: Gravure water-based ink

(Contd. of page 2)

- **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:**
CO₂ powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** 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).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- **6.4 Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:** For the general occupational hygienic measures refer to Section 8.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

| |
|-----------------------|
| 64-17-5 ethanol (20%) |
|-----------------------|

| | |
|---------------------|----------------------------------------------------|
| WEL (Great Britain) | Long-term value: 1920 mg/m ³ , 1000 ppm |
|---------------------|----------------------------------------------------|

(Contd. on page 4)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 16.07.2020

Version number 1

Revision: 16.07.2020

Trade name: Gravure water-based ink

(Contd. of page 3)

| | |
|---------------|-----------------------------------------------------------------------------------------------------------|
| AGW (Germany) | Long-term value: 380 mg/m ³ , 200 ppm 4(II);DFG, Y |
| VME (France) | Short-term value: 9500 mg/m ³ , 5000 ppm Long-term value: 1900 mg/m ³ , 1000 ppm |

- **Regulatory information**

WEL (Great Britain): EH40/2018

AGW (Germany): TRGS 900

VME (France): ED 984, 10.2016

- **DNELs:** Not available

- **PNECs:** Not available

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

- **Appropriate engineering controls:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

See Section 7 for information about design of technical facilities.

- **Personal protective equipment**

- **Respiratory protection:** Not required.

- **Protection of hands:**



Protective gloves

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:**



Tightly sealed goggles

- **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

EU

(Contd. on page 5)

Safety data sheet
Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 16.07.2020

Version number 1

Revision: 16.07.2020

Trade name: Gravure water-based ink

(Contd. of page 4)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Appearance

Form: Liquid

Colour: Blue

· Odour: A slight

· Odour threshold:
· pH-value: Not available

· Change in condition

Melting point/Freezing point: Not available

Initial boiling point and boiling range: Not available

· Flash point: Not available

· Flammability (solid, gas): Not available

· Auto-ignition temperature: Not available

· Decomposition temperature: Not available

· Self-igniting: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits

Lower: Not available

Upper: Not available

· Oxidising properties: Not available

· Vapour pressure: Not available

· Density: Not available

· Relative density: Not available

· Vapour density: Not available

· Evaporation rate: Not available

· Solubility in / Miscibility with
water: Not available

· Partition coefficient: n-octanol/water: Not available

· Viscosity

Dynamic: Not available

Kinematic: Not available

· 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity: Data not available

· 10.2 Chemical stability: Data not available

· 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.

EU

(Contd. on page 6)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 16.07.2020

Version number 1

Revision: 16.07.2020

Trade name: Gravure water-based ink

(Contd. of page 5)

SECTION 11: Toxicological information

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

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

64-17-5 ethanol

| | | |
|------------|----------|-------------------|
| Oral | LD50 | 7,060 mg/kg (rat) |
| Inhalative | LC50/4 h | 20,000 mg/l (rat) |

9006-65-9 Dimethicone

| | | |
|------|------|---------------------|
| Oral | LD50 | >20,000 mg/kg (rat) |
|------|------|---------------------|

- **Skin corrosion/irritation:**
Causes skin irritation.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 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.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

EU

(Contd. on page 7)

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 16.07.2020


Version number 1

Revision: 16.07.2020

Trade name: Gravure water-based ink

(Contd. of page 6)

SECTION 14: Transport information

| | |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| · 14.1 UN-Number | UN1210 |
| · ADR/RID/ADN, IMDG, IATA | |
| · 14.2 UN proper shipping name | PRINTING INK |
| · ADR/RID/ADN, IMDG, IATA | |
| · 14.3 Transport hazard class(es) | |
| · ADR/RID/ADN, IMDG, IATA | |
|  | |
| · Class | 3 Flammable liquids. |
| · Label | 3 |
| · 14.4 Packing group | |
| · ADR/RID/ADN, IMDG, IATA | II |
| · 14.5 Environmental hazards | Not applicable |
| · 14.6 Special precautions for user: | Warning: Flammable liquids. |
| · Danger code (Kemler): | 33 |
| · EMS Number: | F-E,S-D |
| · Stowage Category | B |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable |
| · 14.8 Transport/Additional information: | |
| · ADR/RID/ADN | |
| · Limited quantities (LQ): | 5L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · Transport category: | 2 |
| · Tunnel restriction code: | D/E |
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 1210 PRINTING INK, 3, II |

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· MAK(German Maximum Workplace Concentration)

64-17-5 ethanol

5

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

(Contd. on page 8)

EU

Safety data sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing date 16.07.2020

Version number 1

Revision: 16.07.2020

Trade name: Gravure water-based ink

(Contd. of page 7)

- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**

| |
|--------------------------------------------------------------------------------------|
| · SVHC Candidate List of REACH Regulation Annex XIV Authorisation (25/6/2020) |
|--------------------------------------------------------------------------------------|

| |
|-----------------------------------|
| None of the ingredients is listed |
|-----------------------------------|

| |
|---------------------------------------------------------------------------------------------------------------------------|
| · REACH Regulation Annex XVII Restriction (20/06/2019) See Section 16 for information about restriction of use. |
|---------------------------------------------------------------------------------------------------------------------------|

| |
|-----------------------------------|
| None of the ingredients is listed |
|-----------------------------------|

| |
|--------------------------------------------------------------------|
| · REACH Regulation Annex XIV Authorisation List (13/6/2017) |
|--------------------------------------------------------------------|

| |
|-----------------------------------|
| None of the ingredients is listed |
|-----------------------------------|

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

SECTION 16: Other information

- **Relevant hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.

| | |
|--------------------------------------------------------------------|--|
| · Classification according to Regulation (EC) No. 1272/2008 | |
|--------------------------------------------------------------------|--|

| | |
|-------------------|---------------------|
| Flammable liquids | Bridging principles |
|-------------------|---------------------|

| | |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation | The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No. 1272/2008. |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2

End of document