

83771-1004

Safety Data Sheet
Regulation (EC) No. 1907/2006, 1272/2008



Issue Date: 2019-08-06

EFSH19073670-CG-02

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

- **1.1 Product identifier**
- **Trade name:** Water Colour Cake
- **Registration number:** Data not available
- **1.2 Relevant identified uses of the substance or mixture and uses advised against on**
- **Application of the substance/ mixture:** Painting.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
WUYI LIHUA STATIONERY GOODS CO., LTD.
NO.158 Yongwu Road, Quanxi city wuyi city, Zhejiang. 321200 Jinhua China
Tel: +086-0579-87707171
Fax: +086-0579-8707332
Email: 2961616646@qq.com
- **Only Representative/other EU contact point:** Information not available
- **Further information obtainable from:**
- **1.4 Emergency telephone number**
National Poisons Information Service
Tel: /

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
Classification according to regulation (EC) 1272/2008: The product is not classified according to CLP Regulation.
- **Classification system:**
The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.
- **2.2 Label elements**
- **Labeling according to Regulation (EC) No 1272/2008:** Not applicable
- **Hazard pictograms:** Not applicable
- **Signal word:** Not applicable
- **Hazard statements:** Not applicable
- **Precautionary statement:** Not applicable
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
PBT: Not applicable
vPvB: Not applicable

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterization:** Mixture
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Component:**

CAS No.: 471-34-1	Calcium carbonate	75%
EC No.: 207-439-9	substance with a Community workplace exposure limit	

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CAS No.: 7732-18-5 EC No.: 231-791-2	Water	10%
CAS No.: 84012-34-0 EC No.: 935-477-2	Peach gum	10%
Red Toner:		
CAS No.: 980-26-7 EC No.: 213-561-3	C.I. Pigment Red 122	5%
Yellow Toner:		
CAS No.: 6358-37-8 EC No.: 228-771-0	Pigment Yellow 55	5%
Blue Toner:		
CAS No.: 81-77-6 EC No.: 201-375-5	C.I. Pigment Blue 60	5%
Green Toner:		
CAS No.: 1328-53-6 EC No.: 215-524-7	C.I. Pigment Green 7	5%
Purple Toner:		
CAS No.: 103443-41-0	Pigment Violet 2:2	5%
Orange Toner:		
CAS No.: 21889-27-0 EC No.: 244-635-3	4-[(3-chlorophenyl)azo]-3-hydroxy-N-(2-methoxyphenyl)naphthalene-2-carboxamide	5%
Black Toner:		
CAS No.: 83524-75-8 EC No.: 280-472-4	Black L-0086	5%
White Toner:		
CAS No.: 1345-05-7 EC No.: 215-715-5	Barium zinc sulfate sulfide	5%

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: No special medical attention required.

After inhalation: Supply with fresh air; Consult doctor if you feel unwell.

After skin contact: No special measures required. If skin irritation or allergy occurs: Get medical advice/attention.

After eye contact: Rinse eyes with water. If eye irritation persists: Get medical advice/attention.

After swallowing: Wash mouth. Get medical attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed: There is not any known symptom or effect.

4.3 Indication of any immediate medical attention and special treatment needed: No special immediate medical attention or special treatment needed.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Not flammable paste, use the suitable extinguishing agent surrounding condition.

5.2 Special hazards arising from the substance or mixture: No special hazards arising from the mixture.

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5.3 Advice for firefighters**Protective equipment:** Wear self-contained breathing apparatus if necessary.**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Cut off leakage source and collect spillage timely; Ensure adequate ventilation; Prevent contact with eyes.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so; Prevent spillage from entering drains, sewer, basement or confined areas; if the spillage contaminates rivers, lakes or drains inform respective authorities.

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.

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:** Prevent contact with eyes.**Information about fire and explosion protection:** Normal measures for preventive fire protection.**7.2 Conditions for safe storage, including any non-compatibility****Requirements to be met by storerooms and receptacles:** Store in a cool and well-ventilation location.**Information about storage in one common storage facility:** Keep out of reach of children.**Further information about storage conditions:** Store locked up.**7.3 Specific end use(s):** Painting.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
471-34-1 Calcium carbonate		
France	10 mg/m ³ Inhalable aerosol	-
Hungary	10 mg/m ³ Inhalable aerosol	-
Ireland	10 mg/m ³ Inhalable fraction; 4 mg/m ³ Respirable fraction	-
Latvia	6 mg/m ³	-
Poland	10 mg/m ³	-
United Kingdom	10 mg/m ³ Inhalable fraction; 4 mg/m ³ Respirable fraction	-

DNELs:

DNEL type	DNEL worker value	DNEL consumer value
471-34-1 Calcium carbonate		

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Local effects	Long-term, inhalation exposure	4.26 mg/m ³	1.06 mg/m ³						
• PNECs: <table border="1"> <thead> <tr> <th>PNEC type</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>471-34-1 Calcium carbonate</td> <td></td> </tr> <tr> <td>Sewage treatment plant (STP)</td> <td>100 mg/L</td> </tr> </tbody> </table>				PNEC type	Value	471-34-1 Calcium carbonate		Sewage treatment plant (STP)	100 mg/L
PNEC type	Value								
471-34-1 Calcium carbonate									
Sewage treatment plant (STP)	100 mg/L								
• Additional information: The lists valid during the marking 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: Handle in accordance with good industrial hygiene and safety practice; Wash hands and face before breaks and at the end of work; See section 7 for information about design of technical facilities.									
• Personal protective equipment									
• Respiration protection: Dust mask is recommended.									
• Protection of hands: No special protection of hands required.									
• Eye protection: No special eye protection required.									
• Environmental exposure controls: Control measures must be made in accordance with Community environmental protection legislation.									

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

• Appearance:

Form	Paste
Color	24 colors
Odor	Odorless
Odor threshold	Not applicable
• pH-value	6-8 (10% water solution) at 20 °C
• Change in condition	
Melting point/melting range	Not determined
Boiling point and boiling range	Not determined
• Freezing point	Not determined
• Flash point	Not determined
• Flammability(solid, gas)	Not flammable solid.
• Decomposition temperature	Not determined
• Self-ignition	Product is not self-igniting
• Danger of explosion	Product does not present explosive hazard
• Explosion limits	
Lower:	Not explosive
Upper:	Not explosive
• Oxidizing properties	No oxidation
• Vapor pressure	Not determined
• Density	Not determined
• Relative density	Not determined
• Vapor density	Not determined
• Evaporation rate	Not determined
• Solubility in/Miscibility with	

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Water	Part is soluble in water
Partition coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic	Not determined
Kinematic	Not determined
9.2 Other information	Data not available

SECTION 10: Stability and reactivity

- 10.1 Reactivity:** No decomposition if used according to specification.
- 10.2 Chemical stability:** Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions:** No further relevant information available.
- 10.4 Conditions to avoid:** High temperature.
- 10.5 Incompatible materials:** Strong acid, strong oxidizing agent and alkali metals.
- 10.6 Hazardous decomposition products:** No known hazardous decomposition products.

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:** No animal test has been done for this product or the components.

471-34-1 Calcium carbonate		
Rat	LD50-oral	6450mg/kg
980-26-7 C.I. Pigment Red 122		
Rabbit	LD50-skin	>3000mg/kg
Rat	LD50-oral	>23000mg/kg
81-77-6 C.I. Pigment Blue 60		
Rat	LD50-oral	2000mg/kg
1328-53-6 C.I. Pigment Green 7		
Rat	LD50-oral	>10000mg/kg
Remark: All the above data are from literature.		

- Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- Serious eyes 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**

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• **Aquatic toxicity:** Not hazardous to the aquatic environment.

471-34-1 Calcium carbonate	
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 14 mg/L
Toxicity to microorganisms	EC50 (3 h) 1 g/L
81-77-6 C.I. Pigment Blue 60	
Short-term toxicity to fish	LC50 (4 days) 10 g/L NOEC (4 days) 10 g/L
Short-term toxicity to aquatic invertebrates	LC50 (48 h) 1 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 1 mg/L
Toxicity to microorganisms	EC50 (30 min) 8.12 g/L
1328-53-6 C.I. Pigment Green 7	
Short-term toxicity to fish	LC50 (4 days) 752.4 mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 500 mg/L
Long-term toxicity to aquatic invertebrates	NOEC (21 days) 1 mg/L LOEC (21 days) 1 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 100 mg/L
Toxicity to microorganisms	EC50 (30 min) 10 g/L

• **12.2 Persistence and degradability:** Readily biodegradable.

• **12.3 Bio-accumulative potential:** Low bio-accumulation.

81-77-6	C.I. Pigment Blue 60	Log Pow=1.78 at 20 °C
1328-53-6	C.I. Pigment Green 7	Log Pow= 0.88 - -0.4 at 23 °C

• **12.4 Mobility in soil:** Low mobility in soil.

• **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 large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

• **13.1 Waste treatment methods**

• **Recommendation:** Small quantities can be disposed together with household garbage; Large quantities disposed must be in according to the local regulation.

• **13.2 Un-cleaned packaging**

• **Recommendation:** Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

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• 14.1 UN-Number ADR, RID, ADN, IMDG, IATA	Not regulated as dangerous transport goods, not applicable
• 14.2 UN proper shipping name ADR, RID, ADN, IMDG, IATA	Void
• 14.3 Transport hazard class (es) ADR, RID, ADN, IMDG, IATA Class Label	Void Void
• 14.4 Packing group ADR, RID, ADN, IMDG, IATA	Void
• 14.5 Marine pollution	No
• 14.6 Special precautions for user Danger code (Kemler) EMS Number	Void Void Void
• 14.7 UN "Model Regulation"	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **MAK (German Maximum Workplace Concentration):** None of the ingredients is listed.
- **Directive 2012/18/EU**
- **Named dangerous substances-ANNEX I:** None of the ingredients is listed.
- **National regulations.**
- **Water hazard class:** Water hazard class 1 (German Regulation) (self-assessment): Slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **SVHC Candidate list of REACH Regulation Annex XIV Authorization:** None of the ingredients is listed.
- **REACH Regulation Annex XVII Restriction:** None of the ingredients is listed.
- **REACH Regulation Annex XIV Authorization List:** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

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 reasons, 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).

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IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
PBT: Persistent, Bio accumulative and Toxic
SVHC: Substance of Very High Concern
LD50: Lethal dose, 50 percent
LC50: Lethal concentration, 50 percent
NOEC: No observed effect concentration
LOEC: Lowest Observed Effect Concentration
EC50: Concentration of maximal effect, 50 percent

End of safety data sheet

Safety Data Sheet**color pencil lead**

*Prepared according to American OSHA HazCom Standard (2012)

1 Identification of the chemical and supplier**Product identifier**

Product Name	color pencil lead
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Used for color pencil.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Qing Yuan Lian Xing Pencils Lead Industry Co., Ltd.
Address of the company	Xinyao Industrial Zone, Qingyuan, Zhejiang, China
Post code	--
Telephone number	15057897773
Fax number	--
E-mail address	--

Emergency phone number

Emergency phone number	15057897773
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2 Hazards identification**Hazard classification according to GHS**

Hazard classification according to GHS	Not applicable
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Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

Hazard statements

Hazard statements	Not applicable
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Precautionary statements

◆ Prevention

Prevention	Not applicable
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◆ Response

Response	Not applicable
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◆ Storage

Storage	Not applicable
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◆ Disposal

Disposal	Not applicable
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| **Other hazards**

	Not applicable
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| **Hazard description**

◆ Physical and chemical hazards

	Solid, toxic smoke/fumes in a fire.
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◆ Health hazards

Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Eye	This product may cause temporary discomfort following direct contact with the eye.

◆ Environmental hazards

	Please refer to 12th chapter of SDS.
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3 Composition/information on ingredients

Component	Cas No.	EC No.	Concentration (weight percent, %)
Basic formula			
Talc	14807-96-6	238-877-9	20.0~50.0
Bentonite powder	1302-78-9	215-108-5	< 10.0
Zinc stearate	557-05-1	209-151-9	< 15.0
Carboxymethylcellulose sodium	9000-11-7	900-432-4	< 15.0
Hydrocarbon waxes	8002-74-2	232-315-6	< 10.0
Dyestuff			
Red			
Pigment Red 21	6410-26-0	229-096-4	5.0
Pink			
Calcium 4-[(4-chloro-3-sulphonatophenyl)]	7538-59-2	231-411-5	0.4

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azo]-3-hydroxy-2-naphthoate			
Rhodamine B	81-88-9	201-383-9	0.2
Orange			
Pigment Orange 13	3520-72-7	222-530-3	5.0
Lemon yellow			
Pigment Yellow 147	4118-16-5	223-912-2	5.5
Green			
Copper phthalocyanine	147-14-8	205-685-1	5.0
Pigment Green 7	1328-53-6	215-524-7	2.2
Pigment Yellow 147	4118-16-5	223-912-2	2.3
Green fruit			
Pigment Green 7	1328-53-6	215-524-7	2.5
Pigment Yellow 147	4118-16-5	223-912-2	4.2
Dark blue			
Copper phthalocyanine	147-14-8	205-685-1	5.0
Rhodamine B	81-88-9	201-383-9	0.3
Sky blue			
Copper phthalocyanine	147-14-8	205-685-1	1.3
Pale purple			
Pigment Violet 23	6358-30-1	228-767-9	2.2
Reddish brown			
Iron oxide	1332-37-2	215-570-8	4.5
Titanium oxide	1317-80-2	257-372-4	0.15
Garnet			
Pigment Red 63:1	6417-83-0	229-142-3	2.8
Pigment Red 21	6410-26-0	229-096-4	1.8
Pigment Yellow 147	4118-16-5	223-912-2	0.18
Titanium oxide	1317-80-2	257-372-4	0.15
Black			
Titanium oxide	1317-80-2	257-372-4	9.0

4 First aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

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Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

| Most important symptoms and effects, both acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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| Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

5 Firefighting measures

| Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

| Specific hazards arising from the substance or mixture

1	Containers may explode when heated.
2	Fire exposed containers may vent contents through pressure relief valves.
3	May expansion or decompose explosively when heated or involved in fire.

| Advice for firefighters

1	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
2	Fight fire from a safe distance, with adequate cover.
3	Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

| Personal precautions, protective equipment and emergency procedures

1	Ensure adequate ventilation. Remove all sources of ignition.
2	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
3	Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

| Environmental precautions

1	Prevent further leakage or spillage if safe to do so.
2	Discharge into the environment must be avoided.
3	Do not let product enter drains.
4	Prevent leakage into the water, sewer, basement or confined space.

| Methods and materials for containment and cleaning up

1	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a
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	spill by bunding.
2	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
3	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7 Handling and storage

Precautions for handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.
5	Take precautionary measures against static discharges.

Precautions for storage

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/ hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

Control parameters

Occupational Exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m ³	ppm	mg/m ³
Talc 14807-96-6	USA - OSHA	20	-	-	-
	South Korea	-	2	-	-
	Latvia	-	4	-	-
	Ireland	-	10	-	-
	Denmark	-	0.3	-	0.6
	Australia	-	2.5	-	-
Zinc stearate 557-05-1	USA - OSHA	-	15	-	-
	USA - OSHA	-	5	-	-
	USA - NIOSH	-	10	-	-
	USA - NIOSH	-	5	-	-
	United Kingdom	-	4	-	-
	Switzerland	-	3	-	-
	South Korea	-	10	-	-
	Ireland	-	10	-	20

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	France	-	10	-	-
	France	-	10	-	-
	Canada - Québec	-	10	-	-
Hydrocarbon waxes 8002-74-2	USA - NIOSH	-	2	-	-
	United Kingdom	-	2	-	6
	South Korea	-	2	-	-
	Ireland	-	2	-	6
	Denmark	-	2	-	4
	Australia	-	2	-	-
Copper phthalocyanine 147-14-8	Latvia	-	5	-	-

◆ Biological limit values

Biological limit values	No information available
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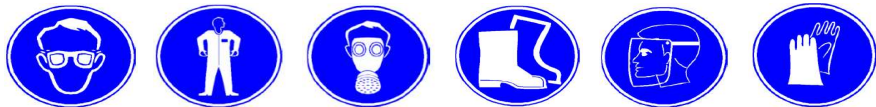
◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

| Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).
Hand protection	Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and body protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

9 Physical and chemical properties

| Physical and chemical properties

Appearance	Solid
Odor	No special odor
Odor threshold	No information available

color pencil lead

pH	Not soluble in water, no pH value
Melting point/freezing point(°C)	> 20
Initial boiling point and boiling range(°C)	>35
Flash point(Closed cup, °C)	Not applicable
Evaporation rate	Not applicable
Flammability(solid, gas)	Not combustible
Upper/lower explosive limits[%(v/v)]	Upper limit : No information available ; Lower limit : No information available
Vapor pressure(kPa)	Not applicable
Vapor density(Air = 1)	Not applicable
Relative density(Water=1)	> 1
Solubility(mg/L)	Slightly soluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	> 100
Decomposition temperature(°C)	> 100
Viscosity(mm²/s)	Not applicable

10 Stability and reactivity**| Stability and reactivity**

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	No information available
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicological information**| Acute toxicity**

Component	Cas No.	LD₅₀(oral)	LD₅₀(dermal)	LC₅₀(inhalation,4h)
Rhodamine B	81-88-9	887mg/kg(Mouse)	No information available	No information available
Pigment Orange 13	3520-72-7	> 5000mg/kg(Rat)	No information available	No information available
Calcium 4-[(4-chloro-3-sulphonatophenyl)azo]-3-hydroxy-2-naphthoate	7538-59-2	887mg/kg(Mouse)	No information available	No information available
Zinc stearate	557-05-1	> 10000mg/kg(Rat)	No information available	No information available

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Carcinogenicity

ID	Cas No.	Component	IARC	NTP
Basic formulas				
1	14807-96-6	Talc	Not Listed	Not Listed
2	1302-78-9	Bentonite powder	Not Listed	Not Listed
3	557-05-1	Zinc stearate	Not Listed	Not Listed
4	9000-11-7	Carboxymethylcellulose sodium	Not Listed	Not Listed
5	8002-74-2	Hydrocarbon waxes	Not Listed	Not Listed
Dyestuff				
Red				
6	6410-26-0	Pigment Red 21	Not Listed	Not Listed
Pink				
7	7538-59-2	Calcium 4-[(4-chloro-3-sulphonatophenyl)azo]-3-hydroxy-2-naphthoate	Not Listed	Not Listed
8	81-88-9	Rhodamine B	Category 3	Not Listed
Orange				
9	3520-72-7	Pigment Orange 13	Not Listed	Not Listed
Lemon yellow				
10	4118-16-5	Pigment Yellow 147	Not Listed	Not Listed
Green				
11	147-14-8	Copper phthalocyanine	Not Listed	Not Listed
12	1328-53-6	Pigment Green 7	Not Listed	Not Listed
13	4118-16-5	Pigment Yellow 147	Not Listed	Not Listed
Green fruit				
14	1328-53-6	Pigment Green 7	Not Listed	Not Listed
15	4118-16-5	Pigment Yellow 147	Not Listed	Not Listed
Dark blue				
16	147-14-8	Copper phthalocyanine	Not Listed	Not Listed
17	81-88-9	Rhodamine B	Category 3	Not Listed
Sky blue				
18	147-14-8	Copper phthalocyanine	Not Listed	Not Listed
Pale purple				
19	6358-30-1	Pigment Violet 23	Not Listed	Not Listed

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Reddish brown				
20	1332-37-2	Iron oxide	Not Listed	Not Listed
21	1317-80-2	Titanium oxide	Not Listed	Not Listed
Garnet				
22	6417-83-0	Pigment Red 63:1	Not Listed	Not Listed
23	6410-26-0	Pigment Red 21	Not Listed	Not Listed
24	4118-16-5	Pigment Yellow 147	Not Listed	Not Listed
25	1317-80-2	Titanium oxide	Not Listed	Not Listed
Black				
26	1317-80-2	Titanium oxide	Not Listed	Not Listed

Others

color pencil lead	
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
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	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
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

12 Ecological information**Acute aquatic toxicity**

Component	Cas No.	Fish	Crustaceans	Algae
Bentonite powder	1302-78-9	LC ₅₀ : 19000mg/L (96h)(Fish)	No information available	No information available

Chronic aquatic toxicity

Chronic aquatic toxicity	No information available
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Others

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Results of PBT and vPvB assessment	The components of the product not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

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13 Disposal considerations**Disposal considerations**

Waste chemicals	If medical advice is needed, have product container or label at hand.
Contaminated packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal recommendations	Refer to section 13.1 and 13.2.

14 Transport information**Label and Mark**

Transporting Label	Not applicable
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IMDG-CODE

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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ICAO/IATA-DG

ICAO/IATA-DG	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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15 Regulatory information**International chemical inventory**

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Basic formulas									
Talc	✓	✓	✓	✓	✓	✓	✓	✓	✗
Bentonite powder	✓	✓	✓	✓	✓	✓	✓	✓	✗
Zinc stearate	✓	✓	✓	✓	✓	✓	✓	✓	✓
Carboxymethylcellulose sodium	✗	✓	✓	✓	✓	✓	✗	✓	✓
Hydrocarbon waxes	✓	✓	✓	✓	✓	✓	✓	✓	✗
Dyestuff									
Red									
Pigment Red 21	✓	✓	✗	✗	✗	✗	✗	✗	✗
Pink									
Calcium 4-[(4-chloro-3-sulphonatophenyl)azo]-3-hydroxy-2-naphthoate	✓	✓	✓	✗	✗	✓	✗	✓	✓
Rhodamine B	✓	✓	✓	✓	✓	✓	✓	✓	✓
Orange									

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Pigment Orange 13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lemon yellow										
Pigment Yellow 147	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Green										
Copper phthalocyanine	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pigment Green 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pigment Yellow 147	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Green fruit										
Pigment Green 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pigment Yellow 147	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dark blue										
Copper phthalocyanine	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Rhodamine B	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sky blue										
Copper phthalocyanine	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pale purple										
Pigment Violet 23	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
Reddish brown										
Iron oxide	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Titanium oxide	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Garnet										
Pigment Red 63:1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pigment Red 21	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗
Pigment Yellow 147	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Titanium oxide	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Black										
Titanium oxide	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

【EINECS】 European Inventory of Existing Commercial Chemical Substances

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances

【NZIoC】 New Zealand Inventory of Chemicals

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances

【KECI】 Existing and Evaluated Chemical Substances

【AICS】 Australia Inventory of Chemical Substances

【ENCS】 Existing And New Chemical Substances

16 Others

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Information on revision

Creation Date	2016/06/27
Revision Date	2016/06/27
Reason for revision	-

Reference

- [1]IPCS:The International Chemical Safety Cards (ICSC) ,website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2]IARC , website: <http://www.iarc.fr/>.
- [3]OECD: The Global Portal to Information on Chemical Substances, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.
- [4]CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5]NLM:ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6]EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7]U.S. Department of Transportation:ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8]Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms

CAS –Chemical Abstracts Service	CMR - Carcinogens, mutagens or substances toxic to reproduction
PC-STEL - Short term exposure limit	PC-TWA - Time Weighted Average
DNEL - Derived No Effect Level	IARC - International Agency for Research on Cancer
RPE - Respiratory Protective Equipment	PNEC –Predicted No Effect Concentration
LC₅₀ - Lethal Concentration 50%	LD₅₀ - Lethal Dose 50%
NOEC -No Observed Effect Concentration	EC₅₀ - Effective Concentration 50%
PBT - Persistent, Bioaccumulative, Toxic	POW - Partition coefficient Octanol:Water
BCF - Bioconcentration factor (BCF)	vPvB - very Persistent, very Bioaccumulative
IMDG -International Maritime Dangerous Goods	ICAO/IATA -International Civil Aviation Organization/International Air Transportation Association
UN -The United Nations	ACGIH -American Conference of Governmental Industrial Hygienists
NFPA -National Fire Protection Association	OECD -Organization for Economic Co-operation and Development

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HazCom Standard (2012). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

General Terms and Conditions
of TÜV SÜD Certification and Testing (China) Co., Ltd. and its affiliated branch offices in the P.R.C.
(hereinafter referred to as *the company*)



1. General Information and Definitions

- (1.1) In the event that an order for any services is placed, the Client shall accept the General Terms and Conditions. The General Terms and Conditions shall be applicable to all orders, resulting contracts and other arrangements, including all offers made or services provided by the Company or any of its affiliated companies. They are not applicable if and as far as they are in conflict with the regulations on services performed on behalf of governments, government bodies or any other public entity, or they are in conflict with mandatory provisions of local law. The Client's placement of orders as well as the conclusion of contracts with the Company shall be regarded as awareness and acceptance of these General Terms and Conditions.
- (1.2) The Company strongly recommends any Client or potential Client to read the full text of these General Terms and Conditions prior to placement of any order to or conclusion of any contract with the Company. Ancillary agreements, promises and other statements made on the part of the Company staff or the experts called upon by them shall be binding only if they are expressly confirmed by the Company in writing. This shall also apply to any modifications of this clause.

2. Provision of Services

- (2.1) With due care and skill, the Company will provide services according to Client's specific instructions as made available by the Client. In the absence of Client's specific instructions, the following is deemed as instructions given to the Company:
- The terms of any standard specification sheet or standard order form provided by the Company; and/or
 - Any relevant usage, practice or trade custom; and/or
 - Such methods the Company considers technically, operationally and/or on financial grounds appropriate.
- (2.2) No authority is entitled to give any instructions particularly on the scope and type of the services or the reports delivered, or on the resulting certificates (the "Reports of Findings"), unless the Company receives prior written instructions to the contrary from the Client. The Client hereby irrevocably authorizes the Company to deliver Reports of Findings to a third party where so instructed by the Client or, at the Company's discretion, where it implicitly follows from circumstances, trade custom, usage or practice.
- (2.3) The information stated in the Report of Findings is derived from the results of inspection or testing procedures carried out in accordance with the instructions and/or Company's assessment of such results on the basis of any technical standards, trade custom or practice, or other circumstances which should in Company's professional experience be taken into account.
- (2.4) Reports of Findings issued after the testing of samples refer the Company's opinion only on samples under testing and not to the lot from which the samples were drawn.
- (2.5) Client agrees that the Company's sole responsibility is to be present at the time of the third party's intervention and to forward the results, or confirm the occurrence of the intervention, in case Client requests the Company to witness any third party's intervention. Client agrees that the Company will use the test methods for analysis as requested in the request form, and if none is stated in the form, the Company will choose the appropriate test methods for analysis.
- (2.6) The Reports of Findings issued by the Company will reflect the facts as recorded by it at the time of its intervention only and within the limits of the instructions received or, in the absence of such instructions, within the limits of the alternative parameters applied as provided for in Clause 2.1. The Company is under no obligation to refer to, or report upon, any facts or circumstances, which are outside the specific instructions received or alternative parameters applied.
- (2.7) The performance of all or part of the services may be delegated to an agent or subcontractor by the Company. The Client authorizes the Company to disclose all information necessary for such performance to the agent or subcontractor.
- (2.8) Documents reflecting engagements contracted between the Client and third parties or third party documents, e.g. sales contract copies, letters of credit, bills of lading, etc. should be made available to the Company. These are considered to be for information only, and do not extend or restrict the scope of the services or the obligations accepted by the Company.
- (2.9) The Company agrees that, by providing the services to the Client, it neither takes the place of Client or any third party, nor otherwise assumes, abridges, abrogates or undertakes to discharge any duty of the Client to any third party or that of any third party to the Client. Also, it does not release the Client or any third party from any of their obligations.
- (2.10) Depending on the nature of each sample, all samples given to the Company shall be retained for a period of 3 months or for such other shorter time period as the nature of the sample permits, and then sent back to Client or otherwise disposed of at the Company's discretion. After that time the Company will not be responsible for the samples. Storage of samples for more than 3 months shall incur a storage fee payable by the Client. If samples are returned to the Client, the Client will be billed a handling and freight fees. Special disposal charges will be billed to the Client if incurred.

3. Client's Obligations

The Client shall:

- (3.1) ensure that all required supporting documents, information and instructions as submitted are accurate, trueful and complete. These information are to be submitted in a timely not later than 2 working days from the date of which the services are requested by the Client.
- (3.2) ensure to give all necessary access for the Company's representatives to the premises where the services are to be performed and to take all necessary steps to eliminate or remedy any obstacles to, or interruptions in the performance of the services;
- (3.3) make available any special equipment and personnel necessary for the performance of the services, if required;
- (3.4) ensure that for the safety and security of working conditions, sites and installations, all necessary measures are taken during the performance of services. In this respect, the Client will not rely on the Company's advice whether required or not;
- (3.5) inform the Company of any known hazards or dangers, actual or potential, associated with any order, samples, testing or any other service rendered by the Company well in advance. Those are, but are not limited to the presence or risk of radiation, environmental pollution or poisons-toxic or noxious or explosive elements or materials;
- (3.6) fully exercise all its rights and discharge all its liabilities under any relevant laws or other contract with a third party.

4. Fees and Payment

- (4.1) All Fees not agreed on between the Company and Client at the time the order is placed or a contract is concluded shall be determined by the Company's Schedule of Fees (which are subject to change). All applicable taxes shall be paid by Client, as far as mandatory laws do not provide otherwise.
- (4.2) Unless a specific period is established in the invoice, the Client shall pay upon receiving the invoice, but not later than 30 days from the relevant invoice date or within such other period as may be established by the Company in the invoice (the "Due Date").
- (4.3) The Client shall not be entitled to retain or defer due payment of any sums to the Company on account of any dispute, counter claim or set-off against the Company. The Company reserves the right to retain or defer any due payments if any dispute arises with or it raises any counterclaim against the Client. The Company is entitled to set-off due payments against payments of the Client.

- (4.4) For the collection of unpaid fees, the Company may decide to bring action in any court with competent jurisdiction. The corresponding collection costs, including attorney's fees and related costs, shall be borne by the Client, as far as the mandatory local law does not provide otherwise.
- (4.5) In case of any unforeseen problems or expenses arise while carrying out the services, the Company informs the Client. In such cases, the Company shall be entitled to charge additional fees to cover extra time and to invoice extra costs necessarily incurred to complete the services.
- (4.6) If the Company is unable to perform all or parts of the services for any cause whatsoever beyond the Company's control, including the failure by Client to comply with any of its obligations provided for in the foregoing Clause 3, the Company shall nevertheless be entitled to payments of:
- The amount of all non-refundable expenses incurred by the Company; and
 - A proportion of the agreed fee equal to the proportion of the services actually carried out.

5. Suspension or Termination of Services

In any case mentioned below, the Company shall be entitled to either suspend or terminate the provision of the services immediately and without any liability:

- (5.1) Failure by the Client to comply with any of its obligations under these General Terms and Conditions and such failure is not remedied within 10 days after a notice of such failure has been delivered to the Client; or
- (5.2) Any suspension of payment, arrangement with creditors, bankruptcy, insolvency, receivership or cessation of business by Client.

6. Liability and Indemnification

(6.1) Limitation of Liability

- (1) Clients seeking a guarantee against loss or damage should obtain appropriate insurance. The Company is neither an insurer nor a guarantor and disclaims all liability in such capacity.
- (2) Reports of Findings are issued on the basis of the information, documents and/or samples provided by, or on behalf of the Client and solely for the benefit of the Client who is obliged to act on the basis of such Reports of Findings. Neither the Company nor any of its staff, agents or subcontractors shall be liable to the Client or to any third party for any actions taken or not taken on the basis of such Reports of Findings, or for any incorrect results arising from unclear, erroneous, incomplete, misleading or false information provided to the Company.
- (3) For any delayed, total or partial non-performance of the services arising directly or indirectly from any event beyond the Company's control, including failure by Client to comply with any of its obligations hereunder, the Company shall not be liable.
- (4) The liability of the Company in respect of any claim for loss, damage or expense of any nature and howsoever arising shall in no circumstances exceed a total aggregate sum equal to 10 times the amount of the fee paid in respect of the specific service which gives rise to such claim, and shall in any case not exceed the equivalent of 25,000 EUR in CNY.
- (5) For any indirect or consequential loss (including loss of profits), the Company shall not have any liabilities.
- (6) In case of any claim, the Client must give written notice to the Company within 30 days of discovery of the facts with all necessary documents to justify such claim. In any case, the Company shall be discharged from all liability for all claims for loss, damage or expense unless a lawsuit is brought within two years from:
- the performance date of the Company for its services which refers to the claim; or
 - the date when the service should have been completed in the event of any alleged non-performance.

- (6.2) **Indemnification:** Against all claims (actual or threatened) by any third party for loss, damage or expenses of whatsoever nature including all legal expenses and related costs and howsoever arising relating to the performance, purported performance or non-performance of any services, the Client shall guarantee, hold harmless and indemnify the Company and its officers, employees, agents or subcontractors.

7. Obligation of Confidentiality, Copyright, Data Privacy Protection

- (7.1) The Company shall be authorized to make file copies of written documents, which have been made available to it for review and which are important for processing the order.
- (7.2) Insofar as Reports of Findings are prepared in the course of processing the order and which are subject to the protection of copyright, then the Company shall grant the Client a simple, non-transferable right to use, insofar as this is necessary and in accordance with the contractually presupposed purpose. Other rights shall not be transferred; in particular, the customer shall not be entitled to modify and/or edit audit reports or to make use of such outside of his business premises.
- (7.3) The Company and its staff which may be called in shall not disclose or use trade and business matters about which they have gained knowledge during the performance of their work without proper authorization, or unless instructed by a court or authorized body (e.g. regulatory authority, accreditation body or certification scheme owner) or otherwise legally required.

8. Miscellaneous

- (8.1) The validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired, even if any one or more provisions of these General Conditions are found to be illegal or unenforceable in any respect.
- (8.2) Client shall not directly or indirectly entice, encourage or make any offer to Company's employees to leave their employment with the Company, during the course of providing the services and for a period of one year thereafter.
- (8.3) Use of the Company's corporate name or registered marks for advertising purposes is not permitted without the Company's prior written authorization.

9. Governing Law, Jurisdiction and Dispute Settlement

- (9.1) Unless specifically agreed otherwise, all disputes arising out of or in connection with contractual relationship(s) hereunder shall be governed by the applicable laws and regulations of the People's Republic of China.
- (9.2) Place of performance for any obligation arising out of this contract shall be Shanghai, the Place of the TÜV SÜD Certification and Testing (China) Co., Ltd., Shanghai branch, unless otherwise expressly agreed by the parties.

10. Languages

In the event of any discrepancy between the English and the Chinese version of these General Terms and Conditions, the English version shall prevail.