



Centre Testing International

S D S

Report Number : ZSRE101020191401

Applicant : ZHONG YI INK & PAINT CO., LTD

Address : Qunfu Industrial park, Zhongshan Guangdong,
China

Sample Name : WG-NY501 Ink

Compiled by : Joan. Yang

Inspected by : Daicy xiao

Approved by : Katherine Ren



Issue date : October 27, 2010

Safety Data Sheet (SDS)

According to EU Regulation (EC) No.1907/2006, Article 31 & Annex II

Printing date 27.10.2010

Revision date 27.10.2010

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

· **Product details**

- **Product name:** WG-NY501 Ink
- **File Number:** ZSRE101020191401
- **Application of the substance / the preparation:** Used for silk screen printing ink.

· **Manufacturer/Supplier:**

ZHONG YI INK & PAINT CO., LTD

Qunfu Industrial park, Zhongshan Guangdong, China

Tel: 0760-88486646

Fax: 0760-88486670

Post code: 528447

· **Further information obtainable from:**

ZHONG YI INK & PAINT CO., LTD

pingo2008@126.com

- **Emergency Phone:** 0760-88486646

2 Hazards identification

· **General information:**

In normal operation, the product is not hazardous. However, may emission harmful gas at high temperature.

· **Human Health effects:**

Harmful if swallowed.

After inhalation thermal decomposition of the product may caused poisoning.

· **Environmental effects:** Releases to the environment should be minimized.

· **Physical and Chemical Hazards:** May produce toxic vapors when heating or other treatment .

· **Classification of the substance or mixture**

· **Classification according to GHS** Void

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

May produce toxic vapors when heating or other treatment .

Void

· **Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard-determining components of labelling:** Void

· **Hazard statements** Void

· **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

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

3 Composition/information on ingredients

Description:

Mixture: consisting of the following components.

Ingredient Name	CAS No.	EC No	Concentration(%)
Water-soluble polyurethane resin	9009-54-5	-	70 ~80
Water	7732-18-5	231-791-2	5 ~10
Carbon black	1333-86-4	215-609-9	5 ~8
Polyether - siloxane copolymer	-	-	1 ~2
2,2',2''-nitrioltriethanol	102-71-6	203-049-8	1-2
Propylene glycol	26264-14-2	-	1-2
Modified epoxyethane polyurethane block copolymer	-	-	0.5~1

Dangerous components:

CAS: 1333-86-4 EINECS: 215-609-9	Carbon black	 Self-heat. 1, H251	5-8%
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4 First aid measures

After inhalation:

Supply fresh air; consult doctor in case of complaints.
Seek medical treatment.

After skin contact:

Wash with water and acidic soap.
Seek medical attention if irritation develops.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Induce vomiting only, if affected person is fully conscious.
If symptoms persist consult doctor.

Information for doctor: Symptomatic treatment is advised.

5 Firefighting measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by the substance, its products of combustion or resulting gases:

Carbon monoxide (CO)
Carbon dioxide

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Under certain fire conditions, traces of other toxic gases cannot be excluded.

· Protective equipment:

Wear self-contained respiratory protective device.

Wear suitable protective clothing and eye/face protection.

6 Accidental release measures

· Person-related safety precautions:

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

· Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

· Measures for cleaning/collecting:

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

Dispose contaminated material as waste according to item 13.

· Additional information:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

7 Handling and storage

· Handling:

· Information for safe handling:

Keep away from heat and direct sunlight.

Keep receptacles tightly sealed.

· Information about fire - and explosion protection:

The product is not flammable.

Protect from heat.

The product is not explosive.

· Storage:

· Requirements to be met by storerooms and receptacles:

Stored in a cool, dry, ventilated area.

Keep away from direct sunlight.

Store in cool, dry place in tightly closed receptacles.

· Information about storage in one common storage facility:

Do not store together with strong oxidizing, reducing, acidic materials as well as alkali metals.

8 Exposure controls/personal protection

· Information about design of technical facilities: *No further data; see item 7.*

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Ingredients with limit values that require monitoring at the workplace:
102-71-6 2,2',2''-nitrioltriethanol

 TLV (USA) 5 mg/m³
1333-86-4 Carbon black

 PEL (USA) 3,5 mg/m³

 REL (USA) 3,5* mg/m³

*0,1 in presence of PAHs, as PAHs; 10-hr TWA

 TLV (USA) 3,5 mg/m³

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

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

Storing food in the working area is prohibited.

· **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

· **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:** Safety glasses

· **Body protection:** Light weight protective clothing

9 Physical and chemical properties

· **General Information**

· **Appearance:**

Form: Liquid

Colour: Black

· **Odour:** Ammonia-like

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

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- **Flash point:** Undetermined.
- **Flammability (solid, gaseous):** Product is not flammable.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density:** Undetermined.
- **Solubility in / Miscibility with water:** Partly soluble.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
To avoid thermal decomposition do not overheat.
- **Materials to be avoided:**
Incompatible materials.
Strong acid.
Strong bases.
Strong oxidizing agents.
Strong reducing agents.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:**
Carbon monoxide and carbon dioxide
Danger of forming toxic pyrolysis products.

11 Toxicological information

- **Acute toxicity:**

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

1333-86-4 Carbon black

Oral LD50 10000 mg/kg (rat)

102-71-6 2,2',2''-nitilotriethanol

Oral LD50 8000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Repeated contact may cause drying or flaking of skin.
- **on the eye:** May cause irritating effect
- **Sensitization:** No sensitizing effects known.

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· **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.

12 Ecological information

· **Additional ecological information:**

· **General notes:**

Not known to be hazardous to water.

Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

· **Product:**

· **Recommendation**

Dispose of waste according to local regulations. Assure conformity with all applicable regulations. Smaller quantities can be disposed of with household waste.

· **Uncleaned packaging:**

· **Recommendation:**

Disposal must be made according to official regulations.

Non contaminated packagings may be reused.

14 Transport information

· **Land transport ADR/RID (cross-border)**

· **ADR/RID class:** Not regulated.

· **UN-Number:** Not applicable.

· **Inland shipping ADN:**

· **ADN/R Class:** Not regulated.

· **Maritime transport IMDG:**

· **IMDG Class:** Not regulated.

· **UN Number:** Not applicable.

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** Not regulated.

· **UN/ID Number:** Not applicable.

15 Regulatory information

· **Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

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· **International regulations/Ordinances:**

· **Information about limitation of use:**

No relevant regulation.

Do not be restricted.

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.

The information of section 3 and section 9 is provided by:

ZHONG YI INK & PAINT CO.,LTD

· **Department issuing SDS:** Centre Testing International

· **Contact us:** REACH@cti-cert.com

· **Date issuing SDS:** October 27, 2010

· **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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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