

Material Safety Data Sheet

NAME OF MANUFACTURER: Shanghai Wit-Color Digital Science & Technology Co., Ltd.

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1. IDENTIFICATION OF THE SUBSTANCE AND REVISION DATE

Product Name: WIT-COLOR INK (CYAN, LIGHT CYAN, MAGENTA, LIGHT MAGENTA, YELLOW, LIGHT YELLOW, BLACK AND LIGHT BLACK)

Revision Date: Jan. 1st, 2012

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

COMPOSITION: Mixture

CHEMICAL NAME: Solvent-based pigment jet ink

| <u>Chemical Name</u> | <u>%</u> | <u>CAS Number</u> | <u>TSCA Listed</u> | <u>EEC No</u> |
|-----------------------|----------|-------------------|------------------------|---------------|
| 2-Butoxyethyl Acetate | 75-95 | 112-07-2 | 4 | 203-933-3 |

| HAZARDOUS INGREDIENTS | CAS-NO | Conc. |
|------------------------------|---------------|--------------|
|------------------------------|---------------|--------------|

| | | |
|---------------|----------|------|
| Cyclohexanone | 108-94-1 | <30% |
|---------------|----------|------|

| | | |
|--------------------------|-----------|------|
| 1-methyl-2-pyrrolidinone | 872-50-41 | <30% |
|--------------------------|-----------|------|

(Ingredients present in non-hazardous amounts are considered trade secrets.)

3. HAZARDOUS IDENTIFICATION

Classification (CHIP): Irritant

Main Health Hazards: Not expected to present any hazards to health under normal conditions of expected use.

4. FIRST AID

Inhalation: Remove casualty to fresh air.

Skin Contact: Wash from skin using soap and water.

Eye Contact: Flush thoroughly with water. If soreness or redness persists, seek medical attention.

Ingestion: DO NOT induce vomiting, encourage casualty to drink water. Seek medical advice.

5. FIRE FIGHTING MEASURES

Flammability: Product is not classed as flammable.

Combustion products: Oxides of Carbon.

Extinguishing media: In the event of a fire use CO₂, Foam, Dry Powder, or Vaporizing Liquid.

6. ACCIDENTAL RELEASE MEASURE

Mop or soap up spillage's in absorbent material. Dispose of in accordance with Local Authority Regulations.

7. HANDLING AND STORAGE

Handling: Avoid prolonged skin contact. Wear gloves and safety glasses of splashing is likely.

Fire Prevention: Avoid heat and sources of ignition.

Storage: Normal cool warehouse conditions. Keep in closed container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: Keep work area well ventilated.

Eye and Skin protection: Wear safety glasses and gloves if splashing is likely.

ENGINEERING MEASURES: Use in well ventilated work area. Eliminate all ignition sources (flames, sparks).

PERSONAL PROTECTIVE EQUIPMENT: Protective mask, safety glass, gloves and apron. Fire extinguisher in area.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Blue (cyan), red (magenta), yellow (yellow), black (black)

ODOR: Moderate solvent odor

BOILING POINT: 156°C

FLASHPOINT: >63°C (closed cup)

AUTOIGNITION TEMPERATURE: 420°C

VAPOR PRESSURE: N/A

FREEZING POINT: N/A

DENSITY: 0.90-0.98 g/ml (25°C)

SOLUBILITY IN WATER: Nil

OTHER: N/A

10. STABILITY AND REACTIVITY

Chemical reactivity: Stable under normal conditions

Decomposition products: Carbon Oxide

Materials / conditions to avoid: None

11. TOXICOLOGICAL INFORMATION

LD₅₀: Acute / oral / rat: >5000mg/kg

12. ECOLOGICAL INFORMATION

Lactic Acid Propyl Ester: Readily biodegradable.

2-Butoxyethyl Acetate: Readily biodegradable

Ethylene glycol monobutyl ether acetate: Readily biodegradable

13. DISPOSAL CONSIDERATIONS

Consult Local Authority for regulations regarding waste disposal

14. TRANSPORT REGULATIONS

Proper shipping name:

Packing group: Not applicable

IMO/MDG:NO

UN Number: Not applicable

IMDG class: Not applicable

IMDG code:

RID/ADR: Not applicable

ICAO/IATA class: Not applicable

Hazard warning sign:

Marine pollutant:

15. REGULATORY INFORMATION

| | | | |
|----------------|---------|---------------------|---------------------------------|
| CHIP labeling- | Symbol: | Hazard: Harmful | Contains: 2-Butoxyethyl Acetate |
| | | Risk phrases: R41 | |
| | | Safety phrases: S25 | |

Other suggested labeling: R41 = Risk of serious damage to eyes
S25 = Avoid contact with eyes

16. OTHER INFORMATION

This safety data sheet has been updated to comply with CHIP regulations. The information is based solely on the data provided by the suppliers of the materials used and/or recognized technical sources, not on the mixture itself and is believed to be correct as of this data. No warranty is expressed or implied regarding the accuracy of the data.