

# Material Safety Data Sheet

Product name : XYZprinting Ink V300S\_BLACK

Date : 20180514

Revision : V1.2

## **1. Identification of the substance/Mixture and of the company/undertaking**

### **1.1 Product identifier**

Product name: XYZ Ink V300S\_BLACK

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Material of Use: Inkjet ink for thermal-bubble digital printing process.

### **1.3 Details of the supplier of the safety data sheet**

Company: XYZprinting, Inc.

Address: No.147, Sec. 3, Beishen Rd., Shenkeng Dist., New Taipei City, Taiwan (R.O.C.)

Information Phone No.: 886-2-7705 8001

Emergency Phone No.: 886-2-7705 8001

## **2. Hazards identification**

### **2.1 Classification of the mixture**

Classification according to Regulation (EC) No 1272/2008

Flammable liquids 2

STOT SE 3

Aquatic Chronic 3

Eye Dam 1

Acute toxicity, Oral 3

Acute toxicity, Inhalation 3

Acute toxicity, Dermal 3

### **2.2 Label elements**

Labeling according Regulation (EC) No 1272/2008

Hazard pictograms



Signal word: Danger

Hazard statements : Highly flammable liquid and vapor.  
Causes serious eye irritation.  
Toxic if swallowed  
May cause drowsiness or dizziness.  
Causes damage to organs.

#### Precautionary statements

Keep away from heat/hot surfaces/sparks/open flames. -No smoking.  
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.

#### Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.  
In case of fire: Use dry powder or dry sand to extinguish.

#### Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
Store locked up.

#### Supplemental label information

Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Flammable vapors can accumulate in headspace of closed systems. This material contains methanol, which, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death. Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 3. Composition/information on ingredients

Chemical characterization: Mixture

Ink Jet printing ink in organic solvents.

Ingredients	CAS-No.	EC No.	Percent (%)	Classification according to Regulation (EC) No 1272/2008
Black dye	Trade Secret	Trade Secret	10	Aquatic Chronic 2: H411
Ethanol	78-93-3	201-159-0	60	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Cyclohexanone	108-94-1	203-631-1	5	Flam. Liq. 2: H225, Eye Irrit. 2: H319, STOT SE 3: H336
Acetone	67-64-1	200-662-2	10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Butanol	71-36-3	200-751-6	15	Flam. Liq. 3: H226, Acute Tox. 4: H302, Skin Irrit. 2: H315, Eye Dam. 1: H318, STOT SE 3: H335, H336

## **4. First aid measures**

### **4.1 Description of first aid measures**

General advice :

When symptoms persist or in all cases of doubt seek medical advice.

Inhalation :

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention if you feel unwell.

Skin Contact :

Remove all contaminated clothing, shoes and socks from the affected areas as quickly as possible. Wash the affected area under running water using a mild soap. If skin irritation or rash occurs: Get medical advice/attention

Eye Contact :

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to remove. Continue to rinse for at least 15 minutes.

Get medical attention immediately.

#### **Ingestion**

This material is toxic in small amounts orally, and can cause adverse health effects or death.

Wash mouth with water and seek medical advice immediately.

Do not induce vomiting.

### **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

### **4.3 Indication of immediate medical attention and special treatment needed**

Treat symptomatically

## **5. Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media :

Dry chemical powder, alcohol---resistant foam, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire---exposed container cool.

Unsuitable extinguishing media : Do not use water jet.

### **5.2 Firefighting procedures**

Use water spray or fog for cooling exposed containers. In case of major fire and large quantities:

Evacuate area. Fight fire remotely due to the risk of explosion.

### **5.3 Specific hazards arising from the substance or mixture**

Carbon oxides, nitrogen oxides will form in fire.

### **5.4 Advice for fire fighters**

Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present. Do not enter fire Area without proper protective equipment, including respiratory protection.

## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges. Do not breathe vapor, mist or spray.

### **6.2 Environmental precautions**

Do not release into soil, sewers, river, or the public water courses.

### **6.3 Methods and material for containment & clean up**

In the case of a cartridge: Not applicable.

At the time of the leakage of contents: Absorb or cover with dry earth, sand or other non-combustible material and transfer to sealable containers. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## **7. Handling and storage**

### **7.1 Precautions for safe handling**

Put on appropriate personal protective equipment (see Section 8). Prohibition of dropping and throwing. Avoid contact with skin, eyes and clothing. Do not breathe vapours. Use only in a well-ventilated area. When using do not eat or drink. Wash hands thoroughly after handling.

Keep away from fire, sparks and heated surfaces. Take precautionary measures against electrostatic discharges.

### **7.2 Conditions for safe storage, including any incompatibilities**

Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place. Store locked up.

### **7.3 Specific end usage**

No further relevant information available.

## **8. Exposure controls/personal protection**

### **8.1 Control parameters**

Compon ents	CAS No.	EU-OEL (TWA)	EU-OEL (STEL)
Dyestuff(Black)	117527-94-3	0.5 mg/m <sup>3</sup>	
Ethanol	64-17-5	1000 ppm, 1920 mg/m <sup>3</sup>	
Cyclohexanone	108-94-1	10 ppm, 40.8 mg/m <sup>3</sup>	20 ppm, 81.6 mg/m <sup>3</sup>
Acetone	67-64-1	500 ppm, 1210 mg/m <sup>3</sup>	
Butanol	71-36-3	50 ppm, 150 mg/m <sup>3</sup>	

### **8.2 Exposure controls**

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye protection : Safety glasses with side-shields. Goggles.

Skin and body protection : Protective suit, Safety shoes.

Hand protection: Impermeable gloves.



Engineering measures Local Exhaust :

Adequate ventilation should be provided so that exposure limits are not exceeded.

## **9. Physical and chemical properties**

Color	Black
Physical state	Liquid
Odour	Alcohol odour
Boiling	80 °C
Melting	No data available
Flash point of	18 C (closed)
Auto-Ignition	No data available
Flammability	Not applicable

Explosive	This product is considered a no explosive material
Vapor Pressure	No data available
Specific Gravity	0.8 ± 0.1 (25°C)
Solubility	No data available
Water solubility	Insolubility
Viscosity	2 ± 1.0 cps (25°C)
pH	Not applicable
Oxidizing	There is nothing in general storage and handling.
Vapor Density	Not applicable
VOCs	No data available

## **10. Stability and reactivity**

### **10.1 Reactivity**

Reacts violently with strong oxidizers. Increased risk of fire or explosion.

### **10.2 Chemical stability**

The product is stable under normal conditions.

### **10.3 Possibility of hazardous reactions**

No hazardous reactions with proper storage and handling

### **10.4 Conditions to avoid**

High temperature, heat, sparks, flames and other sources of ignition. Oxidizing condition

### **10.5 Incompatible materials**

Strong oxidizing agents, Strong bases, Strong acids

### **10.6 Hazardous decomposition products**

Thermal decomposition generates: Carbon Monoxide, Carbon Dioxide and Oxides of Nitrogen (NO<sub>x</sub>) will form in fire.

## **11. Toxicological information**

**11.1 Routes of Overexposure:** Eye, skin, inhalation, and oral ingestion

### **11.2 Health Hazards:**

Acute Health Hazards: Overexposure of the eye surface to ink may be mildly irritating.

Overexposure of ink contact with the skin may cause irritation and in some people, swelling and redness. Intentional inhalation to ink vapors may result in respiratory tract irritation. Intentional or accidental oral ingestion may cause an upset stomach.

Chronic Health Hazards: No information available   Mugtagenicity:   No information available

Carcinogenicity:   No information available

### 11.3 Toxicity:

Acute Toxicity Data:

**Ethanol:**

LD50 Oral, rat: 7,060 mg/kg

**Butanol:**

LD50 Oral , rat : 1,227 mg/kg

**Acetone:**

LD50 Oral, rat: 5,800mg/kg

LD50 Dermal, Guinea pig: 7,426 mg/kg LC50 Inhalation, Rat: 8 h, 50,100 mg/m<sup>3</sup>

**Cyclohexanone:**

LD50 Oral, Rat: 1400 mg/kg

LD50 Dermal, Rabbit: 948 mg/kg

LC50 Inhalation, Rat: 4 h, 8000 mg/L

## **12. Ecological information**

### 12.1 Toxicity

**[Ethanol]:**

Toxicity to fish                      LC50 (Pimephales promelas) >100 mg/l/96h

**[Acetone]:**

Toxicity to fish                      LC50 - Oncorhynchus mykiss (rainbow trout) – 5,540 mg/l - 96 h

**[Methanol]:**

Toxicity to fish                      LC50 - Lepomis macrochirus (Bluegill)- 15,400 mg/l - 96 h

**12.2 Persistence and degradability:** May cause long-term adverse effects in the environment.

**12.3 Bioaccumulative potential:** No data available.

**12.4 Mobility in soil:** No data available.

### 12.5 Results of PBT and vPvB assessment

Not applicable.

**12.6 Other adverse effects:** No further relevant information available.

## **13. Disposal considerations**

### 13.1 Wastreatment methods

Product : Dispose of waste material in accordance with local, state and federal pollution regulations.

Contaminated packaging : When disposing of an empty container, dispose after removing contents materials completely. Dispose of this material and its container according to your country law.



## **14. Transport information**

### **14.1 UN Number**

UN No. (ADR/RID/ADN): 1210

UN No. (IMDG): 1210

UNNo. (ICAO): 1210

UNNo. (IATA): 1210

### **14.2 UN proper shipping name**

Proper Shipping Name: Printing Ink

### **14.3 Transport hazard classes**

ADR/RID/AND Class: 3" Flammable liquids

ADR Label No.: 3

IMDG Class: 3

ICAO Class/Division: 3

IATA Class/Division: 3

Transport Label:

### **14.4 Packing group**

ADR/RID/AND Packing group: II

IMDG Packing group: II

ICAO Packing group: II

IATA Packing group: II



## **15. Regulatory information**

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

EU Regulation (EC) No. 1272/2008 (CLP Regulations)

REACH Status: In compliance.

Pre-registration status: All components are listed or exempted. Annex XIV - List of substances subject to authorization Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

### **15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out.

## **16. Other information**

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.



This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.