



# **MATERIAL SAFETY DATA SHEET DPC ECO DYE-INK DIRECT PHONECASE PRINT**

### 1. Product identification

Product Name	Direct Eco Dye Ink (DPC – C/M/Y/MK/Lc/Lm/LK/LLK	
Manufacturer	Signs Full Joint Tech Co. LTD	
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# 2. Composition / Information on Ingredients

Ingredient	CAS No	Weight %
Dye	-	0.1 – 10
4-Hydroxy-4-methyl-2-pentanone	123-42-2	30 – 40
Ethyl cellosolve	110- 80-5	50 – 70

### 3. Hazards identification

### 3.1. Emergency Overview

Harmful if swallowed, inhaled or absorbed through skin. It causes irritation to eyes and respiratory tract.

> Health Rating: 1 Reactivity Rating: 0

Flammability: 2 Remaining components unknown, or < 1%

#### 3.2. Potential Health Effects

Inhalation: Inhalation of vapors may cause irritation, headache, dizziness, fatigue, nausea,

vomiting and loss of appetite. Weakness, incoordination and tremors may occur.

Swallowing may cause nausea, vomiting, abdominal pain, breathing difficulties, Ingestion:

weakness. Liver and kidney damage may result from swallowing large quantities of

the material.

Skin contact: May be absorbed through the skin with possible systemic effects.

May cause irritation, redness and pain. **Eve contact:** 





### 4. First Aid Measures

Move to fresh air. If breathing is difficult, give oxygen. Call a physician. Inhalation:

Ingestion: Induce vomiting immediately as directed by medical personnel.

**Skin contact:** Immediately flush skin with plenty of soap and water for at least 15 minutes while

removing contaminated clothing and shoes. Wash clothing before reuse.

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove **Eye contact:** 

contact lenses after initial 1 – 2 minutes and continue flushing for several additional

minutes. If effects last longer, consult physician, preferably an ophthalmologist.

# 5. Fire – fighting Measures

### **Extinguishing Media**

Water fog or fine spray. Carbon dioxide. Dry chemical fire extinguishers.

Foam. Alcohol resistant foams are preferred. General purpose synthetic foams or protein foams may function, but will be less effective.

### Extinguishing media to avoid

Do not use directed water stream.

### **Hazardous Combustion Products**

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: carbon oxides.

### **Protection of Firefighters**

Wear positive – pressure self – contained breathing apparatus and protective fire-fighting clothing (includes fire-fighting helmet, coat, trousers, boots and gloves).

If protective equipment is not available or not used, fight fire from a protected location or a safe distance.

### **Specific Fire or Explosion Hazards**

Fine dust of this product can form explosive mixtures with air and poses a definite fire and explosion hazard at all times; keep away from ignition sources.

Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flashback may occur.

Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperatures, possibly resulting in spontaneous combustion.





### 6. Accidental Release Measures

#### **Personal Precautions**

Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion.

Wear appropriate personal protective equipment as specified in Section 8.

Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

#### **Environmental Precautions**

Vapor explosion hazard, keep out of sewers. Contain liquid to prevent contamination of soil, surface water or ground water.

### 7. Handling and Storage

### Handling

Containers, even those that have been emptied, can contain vapors.

No smoking, open flames or sources of ignition in handling and storage area.

### **Storage**

Storage and use areas should be No Smoking areas.

Use of non-sparking or explosion proof equipment may be necessary, depending upon type of operation. Minimize sources of ignition, such as static buildup, heat, spark or flame. Keep container closed.

# 8. Exposure Controls / Personal Protection

### **Exposure Guidelines**

A "skin" notation following the exposure guideline refers to the potential for dermal absorption of the material including mucous membranes and the eyes either by contact with vapors or by direct skin contact.

### **Engineering Controls**

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

#### **Personal Protective Equipment**

Respiratory Protection: For most conditions no respiratory protection should be needed;

however, if discomfort is experienced, use an approved air-purifying

respirator.

In misty atmospheres, use an approved particulate respirator.

For emergency conditions, use an approved positive – pressure self –

contained breathing apparatus.

Use protective clothing chemically resistant to this material. Protective Clothing:

Selection of specific items such as face shield, gloves, boots, apron,





or full body – suit will depend on operation.

Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of it

properly.

Hand/Skin Protection: Wear gloves made of butyl rubber, neoprene etc.

Use safety glasses. If exposure causes eye discomfort, use a full-face Eye/Face Protection:

respirator.

# 9. Physical and Chemical Properties

Appearance/Odor: Colored liquid, Fruity odor

Boliling Point, °C	165 °C	Vapor Pressure mmHg	3.8 mmHg
Freezing Point, °C	-60 °C	Specific Gravity	0.9
Flash Point, °C	80 °C	Water Solubility	Not Miscible
Vapor Density (Air = 1)	4.0	Evaporation Rate	< Butyl Acetate

### 10. Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage.

Conditions to avoid: Flammable vapors can be released at ambient temperatures. Materials to avoid: Avoid contact with metals such as Zinc, Magnesium, Aluminum.

Avoid contact with oxidizing materials.

### 11. Toxicological Information

**Toxicological Data:** Oral rat LD50: 3000 mg/kg; Inhalation rat LC50: 2500 ppm/7H;

Skin rabbit LD50: 1500 mg/kg.

Irritation: Skin: Prolonged contact is essentially non-irritating to skin.

Eyes: May cause slight eye irritation. Effects may include discomfort and

redness.

Inhalation: Excessive exposure may cause irritation to upper respiratory tract.

### 12. Ecological Information

### **Environmental Fate**

When released into the soil, this material may evaporate to a moderate extent, it may leach into the ground water, may biodegrade to a moderate extent.

This material is harmful to aquatic organisms.





# 13. Disposal Considerations

Any disposal practice must be in compliance with all local and national laws and regulations.

### **Disposal**

Incinerate under controlled conditions in accordance with all local and national laws and regulations.

### **Contaminated Packaging**

Empty containers can only be disposed of when the remaining product adhering to the container walls has been removed. Remove all labels.

# **14. Transport Information**

Any transportation's practice must be in compliance with local, state or federal laws and regulations. Not classified as hazardous under transport regulations.

# 15. Regulatory Information

#### **R-Codes**

20/21/22	Harmful by inhalation and in contact with skin and if swallowed.
36/38	Irritating to eyes and skin.
60	May impair fertility.
61	May cause harm to the unborn child.

### **S-Codes**

36/37	Wear suitable protective clothing and gloves.
45	In case of accident or if you feel unwell, seek medical advice immediately.
46	If swallowed, seek medical advice immediately and show this container.
53	Avoid exposure – obtain special instructions before use.
	Restricted to professional user.

### 16. Other Information

The information herein is given in good faith, but no warranty express or implied, is made. Recipients of our product must take responsibility for observing existing laws and regulations.