

---

# Material Safety Data Sheet

Ink EC1211

## 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

**Chemical name:** UV ink

**PRODUCT NAME:** EC1211

**SUPPLIER:** Guangzhou EC-PACK Packaging Equipment Co.,Ltd.

**ADD:** 16 Huangqishan Road,GETDD,Guangzhou,China

**P.C.:** 511356

**TEL:** (86 20) 82057427

**FAX:** (86 20) 82209511

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NO.	CONTENTS	HEALTH (CLASS)	RISK (R No.)
Acetone	67-64-1	20-30%	F, Xi	11, 36, 66, 67
Dye	-	6-10%	N	51/53
Resin	—	10-14%		
Edible ethanol	64-17-5	45-70%	F	11

**COMPOSITION COMMENTS:** A mixture of colorants, resins, additives and solvents.

## 3.HAZARDS IDENTIFICATION

**Highly flammable**

**Irritating to eyes**

**Repeated exposure may cause skin dryness or cracking**

**Inhalation and ingestion can lead to dizziness, weakness, coma, vomiting and ketosis, etc.**

## 4.FIRST AID MEASURES

### GENERAL:

Get medical attention if any discomfort continues. Do not give victim anything to drink if he is unconscious.

### INHALATION:

Move the exposed person to fresh air at once. If breathing stops, provide artificial respiration. Keep the affected person warm and at rest. Get prompt medical attention.

### INGESTION:

DO NOT INDUCE VOMITING! Rinse mouth thoroughly with

---

water and give large amounts of milk or water to people not unconscious. Provide rest, warmth and fresh air. Get medical attention immediately.

**SKIN:** Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

**EYES:** Prompt wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

## **5.FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Fire can be extinguished using: Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Water spray, fog or mist, powder.

### **SPECIAL FIRE FIGHTING PROCEDURES:**

Avoid water in straight hose stream; will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control. Containers close to fire should be removed or cooled with water

### **UNUSUAL FIRE & EXPLOSION HAZARDS:**

HIGHLY FLAMMABLE! Vapors may form explosive mixture with air at room temperature. Vapors are heavier than air and may spread near ground to sources of ignition and flash back.

## **6.ACCIDENTAL RELEASE MEASURES**

**SPILL CLEANUP METHODS:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Clean-up personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area.

## **7.HANDLING AND STORAGE**

Closed operation, full ventilation. Operators must be specially trained to strictly observe the operating procedures. It is recommended that the operator wear self-priming filter respirators (half face mask), wear chemical safety glasses, wear anti-static work clothes, wear rubber gloves. Keep away from fire, heat, workplace smoking is strictly prohibited. Use explosion-proof ventilation systems and equipment. Prevents the vapor from leaking into the workplace air. Avoid contact with oxidants, reducing agents, alkalis. Filling should control the flow rate, and a grounding device to prevent static accumulation. Handling light to light unloading, to prevent damage to packaging and containers. Equipped with the corresponding variety and quantity of fire equipment and leakage emergency treatment equipment. Empty containers may be harmful residues

**USAGE PRECAUTIONS:** Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Avoid spilling, skin and eye contact. Ventilate well, avoid breathe vapors. Use approved respirator if air contamination is above accepted level. Risk of vapor concentration on the floor and in low lying areas. Contaminated rags and cloths must be put in fire proof containers for disposal.

**TORAGE PRECUTIONS:** Flammable/combustible- Keep away from oxidizers, heat and flames. Keep in cool, dry, ventilated storage and closed containers. May attack some plastics, rubber and coatings.

**STORAGE CRITERIA:** Flammable liquid storage

### 8.EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME:	CAS NO.	STD	LT EXP (8hrs)	ST EXP
Acetone	67-64-1	OES	750ppm	1500ppm
Ethyl Alcohol	64-17-5	OES	1000ppm	N/A

**INGREDIENT :** OES = Occupational Exposure Standard

**PROTECTIVE EQUIPMENT:**



**VENTILATION:**

Provide adequate general and local exhaust ventilation.

**RESPIRATORS:**

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Occupational

**PROTECTIVE GLOVES:**

Protective gloves must be used if there is a risk of direct contact or splash. Use protective gloves made of: Impermeable.

**EYE PROTECTION:**

Wear approved safety goggles.

**OTHER**

Wear appropriate clothing to prevent any possibility of skin contact.

**HYGIENIC WORK ROUTINES:**

**DO NOT SMOKE IN WORK AREA!** Wash at the end of each work shift and before eating, smoking and using the toilet. No eating or drinking while working with the material.

### 9.PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Movable, Liquid	<b>COLOR:</b>	Black
<b>ODOUR/TASTE:</b>	Alcohol		
<b>SOLUBILITY</b>	Partially soluble in water		
<b>BOILING POINT (°C)</b>	ca.60@760mmHg	<b>MELTING POINT</b>	ca.-94
<b>SPECIFICGRAVITY (WATER=1) :</b>	0.85 – 0.90@20°C	<b>VAPOUR DENSITY (AIR=1) :</b>	ca.2.4
<b>VAPOUR</b>	Ca.78mmHg@20°C	<b>VOLATILITY:</b>	Highly
<b>EVAPORATION :</b>	>BuAc(BuAc=1)	<b>Ph-VALUE, CONC:</b>	N/A
<b>VISCOSITY:</b>	6-7mPas@25°C	<b>FLASH POINT:</b>	ca.-17.78

<b>FLASH POINT</b>	CC (Closed cup)		
<b>AUTO IGNITION TEMPERATURE</b>	ca.465	<b>FLAMMABILITY (lower%)</b>	ca.2.6(%v/v)
<b>FLAMMABILITY LIMIT (UPPER%) :</b>	ca.12.8(%v/v)		

## 10.STABILITY AND REACTIVITY

**STABILITY:** No particular stability concerns.

**CONDITIONS TO AVOID:** Avoid heat. Avoid contact with oxidizers or reducing agents.  
Avoid contact with acids and alkalis.

**HAZARDOUS POLYMERIZATION:** Will not polymerize.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Fire creates: Asphyxiating gases/vapors/fumes of; Carbon dioxide (CO<sub>2</sub>) Carbon monoxides (CO) Nitrous gases (NO<sub>x</sub>).

## 11.TOXICOLOGICAL INFORMATION

**Toxicity:** low toxicity

**Acute toxicity:** LD505800mg/kg(Rat oral);20000mg/kg(Rabbit percutaneous);12000ppm×4 hours ,Minimum poisoning concentration.people oral 200ml,coma,Head and face fever, cold limbs, headache 12 hours to recover.

**Irritation:**Rabbit eye: 3950µg, Severe irritation.Rabbit Percutaneous Opening Stimulation Test

**Mutagenicity:** Cytogenetic analysis: Copy Wine yeast 200mmol/pipe

**Impact on biodegradation:** Sludge digestion is inhibited when Water content over 4g/L,Activated sludge Nitrification effect of Ammonia nitrogen will reduce 75%.

## 12.ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** Not know. If flow into the water, it may cause harm to the environment.

## 13.DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS:** Dispose of in accordance with Local Authority requirements.  
Absorb in vermiculite or dry sand, dispose in licensed special

---

waste. Make sure containers are empty before discarding (explosion risk).

#### **14.Processing elements**

More liquid or waste should be labeled accordingly, in accordance with the country's current and local rules and regulations to deal with. Generally need to be destroyed by incineration. The empty container has the risk of fire and combustion

#### **15.TRANSPORT INFORMATION**



##### **LABEL FOR CONVEYANCE:**

Risk No: 32061

**UN No:** : 1170

**Packaging logo:** Inflammable Liquid

**PACK GR:** II

Package: small opening steel drum ; Small opening Aluminum ; Ampoule with wooden box, Threaded glass, Iron cap pressure port glass bottle, plastic bottle or Metal bucket(Can) with wooden box.

#### **16.REGULATORY INFORMATION**

Regulations on the Safety Management of Chemical Dangerous Goods, Regulations on the Administration of Safety Regulations for Chemical Dangerous Goods, Regulations on the Safe Use of Chemicals in Workplaces, and other regulations on the safe use, production, storage, transportation and handling of chemical dangerous goods

---

## **17.OTHER INFORMATION**

Safety regulations for ethanol production (HGA011-83)

Safety regulations for acetone production (GB/T6026)