SDS

1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
1.1 Product name: Oil soluble marker pen ink 1.2 Product code: SC898, SC982, SC1060 1.3 Purpose: Industrial or Commercial only 1.4 Supplier: 1.5 Address: , 1.6 Tel: 1.7 Fax: 1.8 Emergency telephone:

2. HAZARDS SUMMARIZE
2.1 Classification: inflammable 2.2 Routes of invasion: Inhalation, ingestion, and skin contact 2.3 Major Hazards: Health hazards: cause effects on the central nervous system Environment hazards: harmful to environment, especially to water. Burning and explosion hazards: no data. May cause combustion explosion in the case of fire and high heat 2.4 Main symptoms: irritation, headaches, dizziness, nausea and vomiting

3. COMPOSITION/INFORMATION ABOUT CONSTITUENTS			
Main component	Content[weight,-%]	CAS NO.	EINECS NO.
Diethylene Glycol	About 8 %	111-46-6	
Ethylene Glycol	About 8 %	107-21-1	
Glycerol	About 12%	56-81-5	
Di(Propylene Glycol)Methyl Ether	About 6%	34590-94-8	
Ethanol	About 19%	64-17-5	
Polymerized Rosin	About 35%	65997-05-9	
Colorants*	About 12%		

*CAS:1325-86-6/12227-55-3/12237-22-8/12237-24-0/12237-31-9/82347-07-7

Formulas

EB210 Blue			
No.	Ingredient	CAS	Percentage % By Weight
1	Solvent Blue 5	1325-86-6	0.1
2	Polymerized Rosin	65997-05-9	0.35
3	Diethylene Glycol	111-46-6	0.08
4	Ethylene Glycol	107-21-1	0.08
5	Glycerol	56-81-5	0.12
6	Di(Propylene Glycol) Methyl Ether	34590-94-8	0.09
7	Ethanol	64-17-5	0.18
Total			1

E2C210 Black			
No.	Ingredient	CAS	Percentage % By Weight
1	Solvent Black27	12237-22-8	0.12
2	Polymerized Rosin	65997-05-9	0.35
3	Diethylene Glycol	111-46-6	0.08
4	Ethylene Glycol	107-21-1	0.08
5	Glycerol	56-81-5	0.12
6	Di(Propylene Glycol) Methyl Ether	34590-94-8	0.09
7	Ethanol	64-17-5	0.16
Total			1

FDER205 Red			
No.	Ingredient	CAS	Percentage % By Weight
1	Solvent Red 122	12227-55-3	0.08
2	Polymerized Rosin	65997-05-9	0.35
3	Diethylene Glycol	111-46-6	0.08
4	Ethylene Glycol	107-21-1	0.08
5	Glycerol	56-81-5	0.13
6	Di(Propylene Glycol) Methyl Ether	34590-94-8	0.09
7	Ethanol	64-17-5	0.19
Total			1

FDEG205 Green			
No.	Ingredient	CAS	Percentage % By Weight
1	Solvent Blue 70	12237-24-0	0.06
2	Solvent Yellow 79	12237-31-9	0.06
3	Polymerized Rosin	65997-05-9	0.35
4	Diethylene Glycol	111-46-6	0.08
5	Ethylene Glycol	107-21-1	0.08
6	Glycerol	56-81-5	0.13
7	Di(Propylene Glycol) Methyl Ether	34590-94-8	0.09
8	Ethanol	64-17-5	0.15
Total			1

FDEO205 Orange			
No.	Ingredient	CAS	Percentage % By Weight
1	Solvent Yellow 79	12237-31-9	0.08
2	Solvent Red 122	12227-55-3	0.04
3	Polymerized Rosin	65997-05-9	0.35
4	Diethylene Glycol	111-46-6	0.08
5	Ethylene Glycol	107-21-1	0.08
6	Glycerol	56-81-5	0.13
7	Di(Propylene Glycol) Methyl Ether	34590-94-8	0.09
8	Ethanol	64-17-5	0.15
Total			1

FDEP205 Pink			
No.	Ingredient	CAS	Percentage % By Weight
1	Solvent Red 218	82347-07-7	0.11
2	Polymerized Rosin	65997-05-9	0.35
3	Diethylene Glycol	111-46-6	0.08
4	Ethylene Glycol	107-21-1	0.08
5	Glycerol	56-81-5	0.13
6	Di(Propylene Glycol) Methyl Ether	34590-94-8	0.09
7	Ethanol	64-17-5	0.16
Total			1

FE2G205 Light green			
No.	Ingredient	CAS	Percentage % By Weight
1	Solvent Blue 70	12237-24-0	0.04
2	Solvent Yellow 79	12237-31-9	0.07
3	Polymerized Rosin	65997-05-9	0.35
4	Diethylene Glycol	111-46-6	0.08
5	Ethylene Glycol	107-21-1	0.08
6	Glycerol	56-81-5	0.13
7	Di(Propylene Glycol) Methyl Ether	34590-94-8	0.09
8	Ethanol	64-17-5	0.16
Total			1

FDEB210 Light blue			
No.	Ingredient	CAS	Percentage % By Weight
1	Solvent Blue 70	12237-24-0	0.1
2	Polymerized Rosin	65997-05-9	0.35
3	Diethylene Glycol	111-46-6	0.08
4	Ethylene Glycol	107-21-1	0.08
5	Glycerol	56-81-5	0.13
6	Di(Propylene Glycol) Methyl Ether	34590-94-8	0.09
7	Ethanol	64-17-5	0.17
Total			1

FDE3G205 Dark green			
No.	Ingredient	CAS	Percentage % By Weight
1	Solvent Blue 70	12237-24-0	0.06
2	Solvent Yellow 79	12237-31-9	0.09
3	Polymerized Rosin	65997-05-9	0.35
4	Diethylene Glycol	111-46-6	0.08
5	Ethylene Glycol	107-21-1	0.08
6	Glycerol	56-81-5	0.13
7	Di(Propylene Glycol) Methyl Ether	34590-94-8	0.09
8	Ethanol	64-17-5	0.12
Total			1

EY210 Yellow			
No.	Ingredient	CAS	Percentage % By Weight
1	Solvent Yellow 79	12237-31-9	0.08
2	Polymerized Rosin	65997-05-9	0.35
3	Diethylene Glycol	111-46-6	0.08
4	Ethylene Glycol	107-21-1	0.08
5	Glycerol	56-81-5	0.13
6	Di(Propylene Glycol) Methyl Ether	34590-94-8	0.09
7	Ethanol	64-17-5	0.19
Total			1

4. FIRST AID PROCEDURES

4.1 First aid methods under different exposure pathways：

Skin contact: 1. Immediately take off polluted clothes, shoes and leather goods (such as watch and belt); 2. Immediately erase and wash off chemical residues; 3. Wash skin thoroughly with water or mild soap for 20 minutes or till all the chemical residues are removed; 4. Get rid of pollutants before reusing or throwing away polluted clothes; 5.Seek immediate medical attention

Eye contact: 1. Immediately erase and wash off chemical residues; 2. Immediately rinse with clean water for 5 minutes or till all the chemical residues are removed; 3. Seek immediate medical attention

Inhalation: 1. Remove victim to fresh air; 2. In case of respiratory arrest, immediately give artificial respiration by trained person; in case of cardiac arrest, immediately take cardiopulmonary resuscitation; 3. Seek immediate medical attention.

Ingestion：1. In case that the victim is about to lose consciousness or spasm, do not feed anything or give emetic; 2. Ask the victim to drink 240-300ml water in order to dilute chemical compounds n the stomach; 3. In case that the victim has autemesia, lean forward the body in order to reduce the risk of inhalation; 4. Seek immediate medical attention

4.2 To first-aid personnel's protection: wear protective gloves in order not to touch pollutants

4.3 To doctor's reminder: case by case study

5. FIRE-FIGHTING MEASURES

5.1 Hazardous combustion products: carbon dioxide, dry powder, foam and sand.

5.2 Special hazards:

1. Stop the leak before stopping the fire. If can't, let the leak burn out; 2. If it can't stop the leak, vapor may mix with explosive mixtures in air and cause re-ignition; 3. It releases carbon monoxide and carbon dioxide when burning; 4. Don't breathe in smoke in the case of fire and/or explosion; 5. Prohibit polluted fire-fighting water from flowing into the soil, groundwater or surface water.

5.3 Special fire-fighting procedures:

1. Move containers away from a fire when it is safe; 2. The use of water mist fire extinguishing is invalid, but it can cool containers that are exposed to fire; 3. If the spill doesn't cause ignition, water spray mist spreads the steam and protects person trying to stop leaking; 4. In large fire area, use unmanned water mist or automatic swing fire water piping support system. If not possible, then leave and allow fire burning out.

5.4 Special protective equipments for firefighters:

1. Firefighters should wear chemical protective clothing, protective gloves and SCBA

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:

1. Before the polluted area is cleaned, don't allow people to get close to it; 2. Make sure that the cleaning work is done by trained personnel; 3. Wear proper appropriate personal protective equipment when cleaning

6.2 Environmental Precautions:

1. Ventilate the area; 2. Put out or remove all combustion sources; 3. Notify the government about the safety and health; 4. Avoid materials leaking into the sewer or airtight space.

6.3 Cleaning method:

1. Don't touch leaking materials; 2. Try to prevent or reduce spill under the security permission. Stop material leaking by using mud, sand or other similar stable and non combustible substances; 3. When there is a small amount of spill, use absorbent to absorb leaking materials and use water to wash the leaking area; 4. When there is a large amount of spill, construct dike or dig holes to contain leaking materials. Use foam to cover and reduce steam disasters. Contact fire department, emergency handling agencies and other suppliers for assistance.

7. HANDLING AND STORAGE

7.1 Handling precautions:

1. Stay away from heat source, ignition source, oxidizing agent and other incompatibles

2. Ensure efficient exhaust ventilation in the working area

7.2 Storage precautions:

1. Keep container dry and tightly closed and store between 5-40℃. Avoid exposure to direct sunlight

2. Store in safe containers. Use abrasion resistance materials

3. Assemble and disassemble lightly to avoid damaging the package of the container

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Contact control:

1. It doesn't produce sparks when used alone; 2. The exhaust port directly extends to outside. Take important measures to protect the environment; 3. The extensive use of this material, may require local exhaust and process airtight; 4. Supply fresh air to increase air extracted by the exhaust system.

8.2 Control parameters: no data

8.3 Personal protection:

Respiratory protection: It is recommended to wear gas mask. Wear organic steam filter type protective mask in a short period of time at work. It is not recommended for respiratory tract and skin allergies (such as asthma, chronic bronchitis and chronic skin disease patients) to use these products

Hand protection: Use impervious gloves. Materials, such as polyvinyl

chloride, Teflon and tec., are preferred

Eye protection: 1. Goggles; 2. Full face mask

Skin and body protection: 1. Long sleeve cotton protective clothing; 2. Footware; 3. Shower/eyewash equipments at workplace

8.4 Hygiene measures

1. Immediately take off polluted clothes after work. Wear or discard them after washing. Inform the laundry staff about the harm of pollutants; 2. Smoke or eating is forbidden at workplace; 3. Thoroughly absorb the pollutants after dealing with it; 4. Maintain workplace clean; 5. Conduct physical examinations prior to and after employment.

9.PHYSICAL AND CHEMICAL PROPERITIES	
9.1 Status: liquid	9.2 Shape: not viscous liquid
9.3 Color: black/red/blue/green/ purple/orange/yellow/brown	9.4 Odor: Similar to ethanol aroma
9.5 PH: 9.5 ~10.5	9.6 Boiling point: 78.3
9.7 Decomposition temperature: no data	9.8 Flash point: 9℃
9.9 Spontaneous ignition temperature: 363℃	9.10 Explosion limits: 3.3%~19%
9.11 Vapor pressure: 5.33(19℃)	9.12 Vapor density: 1.59kg/m
9.13 Gravity: 0.73	9.14 Solubility: not soluble in water

10. STABILITY AND REACTIVITY

10.1 Stability: stable under normal condition

10.2 Materials to avoid: no data

10.3 Conditions to avoid exposure: peroxides, strong oxidizing agents, sparks, ignition sources

10.4 Polymerization hazard: no

10.5 Hazardous decomposition products: no hazardous decomposition products when they are correctly stored or used. Smoke produced during combustion

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity:

Inhalation: vapor irritates nasal and throat

Skin contact: 1. The liquid may cause skin irritation; 2. Absorbed by skin. Symptoms similar to inhalation and ingestion.

Eye contact: may cause incitation by vapor or other liquid

Ingestion: 1. May cause incitation of mouth cavity and throat; 2. May cause symptoms that restrain central nervous system such as headache, asthenia, dizzy and nausea

11.2 Local effects: may cause incitation of eye and skin

11.3 Sensibility: no data

11.4 Chronic toxicity or long-term toxicity: long-term exposure may cause chapped skin and incitation
11.5 Special effects: no data

12. ECOLOGICAL INFORMATION

12.1 Environmental fate and distribution: no data
12.2 Environmental effects: no data
Bio accumulation: no data
Biodegradation: matrix resin can not be degraded, but can be degraded by organisms and microorganisms
12.3 Sewage treatment equipment: no data

13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods:
1. Waste storage should be in accordance with the storage terms and conditions
2. Waste disposal should comply with international, national and local laws and regulations. In the EU region, waste disposal should be in accordance with EWC regulations
3. After recycling final products, residuary products in all containers should be removed away.
4. Send waste to proper pick-up points based on existing recovery scheme

14. TRANSPORTATION INFORMATION

14.1 International regulations on transportation:
The transportation of dangerous goods is limited by related standards.
14.2 Domestic transportation regulation: to comply with national, provincial, and local transportation regulations
14.3 Special transportation method and notes: no data

15. REGULATORY INFORMATION

15.1 Regulations:
1.Environmental protection law of the People's Republic of China
2.Regulations on safety management of hazardous chemicals
3.Chemical dangerous goods safety management regulations implementing rules
4.The use of chemicals in workplace safety regulations
5.Chemical classification and hazard communication general（GB13690）
6.Commonly used dangerous chemicals storage general（GB15603）
7.Labels for packages of dangerous goods（GB190）
8.Transport packaging for dangerous goods - General technical requirements（GB12463）

16.OTHER INFORMATION
16.1 References: Chemical Safety Technical Specifications Content and Order of Sections(GB/T 16483-2008) 16.2 Dept: SHANGHIA YUANCHANG INK CO.,LTD 16.3 Special instruction: the information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances