SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name: PC series white ink
Other name: -
Recommended application and limited use: screen printing
Company: MINFEI CHEMICALS INDUSTRIES CO., LTD Address: No.32, Ln.138, Da'an Rd., Tucheng Dist., New Taipei City, 23673, Taiwan Telephone: +886-2-2269-2527
Emergency telephone: +886-2-2269-2527 Fax: +886-2-2269-1802

SECTION 2: Hazards identification

Classification of the substance or mixture

Flammable liquids	Category 4
Acute toxicity, Oral	Category 4
Acute toxicity, Dermal	Category 4
Acute toxicity, Inhalation	Category 4
Skin corrosion/irritation	Category 2
Eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
Specific target organ toxicity - single exposure	Respiratory tract irritation (Category 3)

Label elements

Pictogram: Exclamation mark, Corrosion, Health Hazard
Signal word: Danger

Hazard statement(s)

H227 Combustible liquid
H302 Harmful if swallowed
H312 Harmful in contact with skin
H332 Harmful if inhaled
H315 Causes skin irritation
H318 Causes serious eye damage
H351 Suspected of causing cancer
H335 May cause respiratory irritation

Precautionary statement(s)

Wear protective gloves/ eye protection/ face protection.
IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Other hazards: -

SECTION 3: Composition/information on ingredients

Mixture:

Chemical properties:

Component	Concentration
Isophorone (CAS No. 78-59-1)	35-40
Resin (CAS No. 25767-39-9)	30-35
Copper (CAS No. 7440-50-8)	20-30

SECTION 4: First aid measures

Description of first aid measures:

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

Most important symptoms and effects
Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, central nervous system depression, narcosis

First-aid personnel protective equipment
Wear C level protective clothing

Indication of any immediate medical attention and special treatment needed
No data available

SECTION 5: Firefighting measures

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture
Carbon oxides

Special extinguishing processes
No data available

Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: Exposure controls/personal protection

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

Control parameters
No data available.

Personal protective equipment
Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique

(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. **Body Protection** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. **Respiratory protection** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hygienic measure No data available.

SECTION 9: Physical and chemical properties

Appearance: Opaque viscous liquid	Odor: aromatic
Odor Threshold: -	Melting point: -
pH: -	Initial boiling point and boiling range: -
Flammability (solid, gas): -	Flash point: 75 ℃ Measurement: Closed cup
Decomposition temperature: -	
Auto-ignition temperature: -	Explosive limit: -
Vapor pressure: -	Vapor density: - (air = 1)
Density: 1.1 (water = 1)	Solubility: -
Partition coefficient: n-octanol/water: -	Evaporation rate: - (NBAC = 1)

SECTION 10: Stability and reactivity

Chemical stability Stable in normal situation
Possibility of hazardous reactions Strong oxidation agent (ex. peroxide, nitrate, perchlorate, etc.) may cause fire or explosion
Conditions to avoid Heat, fire, electricity
Incompatible materials Strong oxidation agent (ex. peroxide, nitrate, perchlorate, etc.)
Hazardous decomposition products No data available.

SECTION 11: Toxicological information

Exposure route Inhalation, ingestion, skin, eyes.
Signs and Symptoms of Exposure Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, central nervous system depression, and narcosis.
Acute toxicity LD50 Oral - rat - 1.870 mg/kg LC50 Inhalation - guinea pig - 8 h - 4600 ppm LD50 Dermal - rabbit - 1.382 mg/kg **Skin corrosion/irritation** Skin - rabbit - Mild skin irritation - 24 h **Serious eye damage/eye irritation** Eyes - rabbit - Eye irritation - 24 h **Respiratory or skin sensitization** no data available
Germ cell mutagenicity No data available **Carcinogenicity** This product is or contains a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies

SECTION 12: Ecological information

Toxicity **Toxicity to fish** NOEC - Cyprinodon variegatus (sheepshead minnow) - 170 mg/l - 96 h LC50 - Pimephales promelas (fathead minnow) - 145 mg/l - 96 h **Toxicity to daphnia and other aquatic invertebrates** LC50 - Daphnia magna (Water flea) - 120 mg/l - 48 h
Persistence and degradability No data available.
Bioaccumulation Lepomis macrochirus (Bluegill) - 14 d -0,0924 mg/l Bioconcentration factor (BCF): 7
Mobility in soil no data available
Other adverse effects no data available

SECTION 13: Disposal considerations

Waste treatment methods **Product** Offer surplus and non-recyclable solutions to a licensed disposal company. **Contaminated packaging** Dispose of as unused product.

SECTION 14: Transport information

UN number: UN1210
UN proper shipping name: Printing ink
Transport hazard class: 3
Packaging group: III
Marine pollutant: No
Special precautions for user: -

SECTION 15: Regulatory information

REGULATORY INFORMATION This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SECTION 16: Other information

Reference	1. CHEMINFO data base，CCINFO disc，2000-3 2. HAZARDTEXT data base，TOMES PLUS disc，Vol.45，2000 3. RTECS data base，TOMES PLUS disc，Vol.45，2000 4. HSDB data base，TOMES PLUS disc，Vol.45，2000 5. Harmful chemical Substances，environmental protection administration Taiwan	
Make unit	Name: MINFEI CHEMICALS INDUSTRIES CO., LTD	
	Address: No.32, Ln.138, Da’an Rd., Thcheng Dist., New Taipei City, 23673, Taiwan TEL: +886-2-2269-2527	
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