

# Safety Data Sheet

## RBE03C

Revision No: 1st

Date: 2016.1

### 1. PRODUCT IDENTIFICATION

Product Identifier RBE03C  
General Use Negative Type Photoresist  
Product Description Negative Type Photoresist

**Supplier Detail:** **EMK Technologies Pte Ltd** / 21 Bukit Batok Crescent,  
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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Content (%)
Novolac resin	9003-35-4	20-30
Propylene Glycol Methyl Ether Acetate	108-65-6	50-70
1-Hydroxycyclohexyphenyl ketone	947-19-3	10-20

### 3. HAZARD IDENTIFICATION



Emergency Overview : Red transparent liquid with slightly acetone-like odor

Potential Health Effects: Inhalation may cause anesthesia. Vapors are irritating eyes, nose and respiratory tract. Overexposure may result in headache, nausea and vomiting.

Eye Contact : Eye contact may cause severe irritation.

Skin Contact : Prolonged and repeated contact with skin may cause irritation and dermatitis.

Ingestion : Swallowing may nauseate and cause pain in esophagus and stomach.

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## 4. FIRST AID MEASURES

- Inhalation : Remove exposed person to fresh air, perform artificial respiration if necessary. Call a physician.
- Eye Contact : Immediately flush eyes with plenty of water at least 15 min. Call a physician.
- Skin Contact : Immediately wash skin with soap and plenty of water.
- Ingestion : Contact a poison center and have MSDS information available.

## 5. FIRE-FIGHTING MEASURES

- General Hazard : Combustible Liquid. May release vapors that form flammable mixtures when temperatures are at or above the flash point. Toxic gases will form upon combustion
- Extinguishing Media : Water, Foam, Dry chemical powder
- Special Fire Fighting Procedures : Firefighters should wear self-contained breathing apparatus and protective clothing.
- Unusual Fire and Explosion Hazards : None
- Hazardous Combustion Products : Smoke, fumes and toxic gas and/or carbon mono-oxide.

## 6. ACCIDENTAL RELEASE MEASURES

- General : Provide maximum ventilation. Wear suitable protective equipment. Small spill should be flushed with large quantities of water. Large spill should be collected for disposal. Toxic to fish.
- Land Spill : Dike or absorb with inert absorbent material such as sand or sawdust and transfer to container for disposal.
- Water Spill : Remove from surface by skimming or with suitable absorbents.

## 7. HANDLING AND STORAGE

- Warning : Combustible solvent mixture. Avoid heat, sunlight, and ignition sources.
- Precautions : Handle with care. Open only under well ventilated conditions. Loosen closure cautiously before opening. When using this substance : (a) avoid breathing the substance; (b) avoid ingestion; (c) use respiratory protection when in dust or insist from. Wear chemical goggles, resistant gloves and protective clothing to prevent contact. Wash thoroughly after handling.
- Storage Temperature : 3 °C ~ 8 °C
- Storage Pressure: Atmospheric

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls : The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint and Method :	48 °C Tag closed cup
Flammable Limits :	LEF : 1.1 % UFL:10.2% (Reference)
Vapor Pressure :	3.8mmHg (25°C)
Specific Gravity :	1.003
Solubility in Water :	insoluble
Boiling Point :	146 °C

## 10. STABILITY AND REACTIVITY

Incompatible Materials and Conditions to Avoid : Strong oxidizing agents, strong acid, strong bases and strong reducing agents.

Hazardous Decomposition : This material is stable under recommended storage and handling conditions.

Hazardous Polymerization : May not occur.

## 11. TOXICOLOGICAL INFORMATION

SOLVENT (Diethylene glycol dimethyl ether) :

Acute Toxicity :

LD50 (oral-rat): -

## **12. ECOLOGICAL INFORMATION**

SOLVENT :

Biodegradations :

BOD :

## **13. DISPOSAL CONSIDERATIONS**

Burn in a chemical incinerator equipped with an afterburner but exert extra care in igniting as this material is highly flammable. Do not flush into the sewer.

## **14. TRANSPORT INFORMATION**

Proper Shipping Name :	Resin solution
Identification Number :	UN 1866
Packing Group :	III
DOT Classification :	Class 3, Flammable Liquid

## **15. REGULATORY INFORMATION**

TSCA (Toxic Substance Control Act) :

All the components in the color photoresist are on TSCA lists or are subject to a Low Volume Exemption.

## **16. OTHER INFORMATION**

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