

# Material Safety Data Sheet

TO: CPH INTERNATIONAL

## 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: *EM-40S CLEAR SUPER GLUE*  
IDENTITY 20KG BOTTLE

APPLICATION: ADHESIVE  
COMPANY IDENTIFICATION: FLOREX CO., LTD.  
2-25-1, NISHIGOTANDA, SHINAGAWA-KU  
TOKYO 141-0031, JAPAN

EMERGENCY TELEPHONE NUMBER: +81-3-3495-0991  
FAX NUMBER: +81-3-3495-0993  
DATE ISSUED: September 30, 2010

## 2 COMPOSITION, INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY	INCI	CAS NO.	%
ETHYL CYANOACRYLATE	ETHYL CYANOACRYLATE	7085-85-0	91.35
POLYMETHYL METHACRYLATE	POLYMETHYL METHACRYLATE	9011-14-7	8.5
HYDROQUINONE	HYDROQUINONE	123-31-9	0.15

## 3 HAZARDS IDENTIFICATION

CLASSIFICATION: Xi IRRITANT  
Irritating to eyes, respiratory system and skin.  
**Bonds skin and eyes in seconds. Keep out of the reach of children.**  
In case of contact with eyes, rinse at once with plenty of water and seek medical advice.

## 4 FIRST AID MEASURES

**INHALATION:** Remove person to fresh air, and if still feeling unwell seek medical attention.

**SKIN CONTACT:** Don't try to pull apart. Use glue remover or it may be gently peeled apart using a blunt object such as a spoon, preferably upon wetting in warm soapy water. Cyanoacrylates generate heat as they are getting cured. A large drop will give off heat to cause a burn. Remove the adhesive from the skin and treat burns normally.

**EYE CONTACT:** If the eye is bonded closed, release eyelashes with cloth wet with warm water. The adhesive will bond to eye protein to cause shedding tears which will help to debond the adhesive. Keep eye covered until debonding is complete, usually for a day or two. Don't force eye open and seek medical attention, so solid particles of the adhesive will not cause any abrasive damage.

**INGESTION:** Induce vomiting at once. Glue gets polymerized in mouth soon. Don't panic. Just rinse with warm water.

**NOTE TO PHYSICIAN:** Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

## 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:**

Sand, foam, dry chemicals such as carbon dioxide & halones. Polymerization will occur but not be hazardous.

**FIRE AND EXPLOSION HAZARD:** None. The adhesive is non flammable.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FI** Water will intense polymerization to the liquid. Fire fighters should wear self-contained breathing apparatus.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS:

Eliminate all sources of ignition. Ventilate the area.

### METHODS FOR CLEANING UP:

Ventilate the area. Don't use cloths for mopping up. Polymerize with water and scrape off floor. Wear self contained breathing apparatus, polyethylene gloves and boots covered by polyethylene material when cleaning up.

## 7 HANDLING AND STORAGE

### HANDLING:

Keep containers tightly closed while not in use. Keep away from heat and flame. Avoid contact with eyes and skin.

### STORAGE CONDITIONS:

Store in a cool, dry and dark place. For optimum shelf life store in original containers at 2°C and 8°C.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### OCCUPATIONAL EXPOSURE LIMITS:

Exposure guidelines have not been established for this product. Hygienic practices are not specially required so long as workers take care of eye contact while working in ventilated area.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>FLASH POINT:</b>	84°C
<b>SPECIFIC GRAVITY:</b>	1.06-1.08
<b>SOLUBILITY IN WATER:</b>	Insoluble. Liquid polymerizes in water.
<b>VISCOSITY:</b> mPa/s/20°C	40 cps
<b>BOILING POINT:</b>	6mmHg 65°C
<b>FREEZING POINT:</b>	<-30°C
<b>VAPOR DENSITY:</b>	3.9 (AIR = 1)
<b>EVAPORATION RATE :</b>	Very slow. (Butyl Acetate = 1)
<b>APPEARANCE AND ODOR:</b>	Clear transparent liquid with pungent odor.

## 10 STABILITY AND REACTIVITY

<b>STABILITY:</b>	<b>Stable =</b>	If stored in a cool and dry location.
	<b>Unstable =</b>	It polymerizes in water, moisture, excess heat, open flame.
<b>HAZARDOUS POLYMERIZATION:</b>		Polymerization will occur but not hazardous.
<b>CONDITIONS TO AVOID:</b>		Water, moisture, excess heat, open flame.
<b>MATERIALS TO AVOID:</b>		Water, alcohols and other basic materials.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>		Acid, carbon monoxide, carbon dioxide, cyanide compound.

## 11 TOXICOLOGICAL INFORMATION

**SKIN:** Bonds skin in seconds. Considered to be of low toxicity. Allergic reaction is not considered possible due to polymerization at the skin surface.

**EYES:** Bonds eyelids. Vapors may cause irritation and lachrymatory effect.

**INHALATION:** Expected to be low. Vapors may irritate the eyes and respiratory system.

**INGESTION** : Considered to have relatively low toxicity. Acute oral LD50 is 6.76ml/kg (in the abdominal cavity of Daikoku rat.)

**SENSITISATION**: Not classified as sensitising. However, prolonged over-exposure to vapors may lead to sensitising effects in sensitive individuals.

**MUTAGENICITY**: No adverse results reported.

**CARCINOGENICITY** No adverse results reported.

**TERATOGENICITY**: No adverse results reported.

**REPRODUCTIVE TOXICITY**: No adverse results reported.

## **12 ECOLOGICAL INFORMATION**

### **PERSISTENCY AND DEGRADATION:**

If released into the environment this product will polymerize by such factors as water, heat or direct sunlight to turn into non-biodegradable. Does not contain any of the substances listed in RoHS and WEEE Directives.

## **13 DISPOSAL CONSIDERATIONS**

Polymerize by adding to water, then dispose of as water insoluble non-toxic solid chemical in accordance with local and national regulations.

## **14 TRANSPORT INFORMATION**

Not considered hazardous for the purpose of transportation.

## **15 REGULATORY INFORMATION**

### **CLASSIFICATION AND LABELLING:**

This preparation is not regulated, however, we recommend the following safety precautions:

**CAUTION** Danger! Bonds eyes and skin instantly. Keep out of reach of children.

**X** Irritant Do not use on sore or infected nails or cuticles.

## **16 OTHER INFORMATION**

### **RELEVANT RISK PHRASES:**

Wear polyethylene gloves as this product bonds skin instantly.

Impervious clothing is recommended as this product, if splashed by mistake, permeates into clothing and cannot be removed.

To the best of our knowledge, the information contained herein is believed to be correct as of the date thereof. However, neither Florex nor any subsidiaries assume any liability whatsoever or no warranty is made, either expressed or implied regarding its accuracy or the results to be obtained from the use of such information. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein we cannot guarantee that these are the only hazards which exist.

**END OF DOCUMENT**

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