

## SAFETY DATA SHEET

July 1,2015

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : 4EVER floor coating FOP (Hardener) **item# HB604, HB607, HB610**

PRODUCT DESCRIPTION : High Performance Epoxy Hardener

MANUFACTURER/Supplier: **MADE IN JAPAN** by SOMAY-Q Technology Corporation

For: **BHG IMPORT EXPORT INC.**

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**EMERGENCY MEDICAL & SPILL CONTROL**  
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### SECTION 2: HAZARDS IDENTIFICATION

PHYSICAL , CHEMICAL HAZARDS :

Flammable liquid 2

HEALTH HAZARDS : Acute toxicity (Inhalation : Oral) 5

Acute toxicity(Inhalation : Mist) 4

Skin corrosion/irritation 2

Damage to the eye 2A

Respiratory sensitization 1A

1

Specific target organ toxicity - Single exposure  
(Respiratory organs)1

(Anesthetic action)3

(Orbital stimulativeness ) 3

Specific target organ toxicity - Repeated exposure;  
(Respiratory organs)1

Suction, the respiratory organ harmful effect 1

Aquatic environment acute harmful effect 1

Aquatic environment chronic harmful effect 2

LABEL ELEMENTS :



- HAZARDOUS INFORMATION :
- Danger
  - Flammable liquid , vapor
  - Harmful for inhalation
  - Irritation to the eye
  - Generative toxicity
  - May cause drowsiness , dizziness
  - Irritation to the respiratory organ

- PRECAUTIONS :
- Harmful for Central nervous system , the organ of vision for repetition of use
  - Read cautions thoroughly before use.
  - Avoid smoking.
  - Keep away from heat , sparks and flame.
  - Use only with adequate ventilation.
  - Avoid breathing vapor.
  - Avoid contact with eyes, skin and clothing.
  - Keep container closed.
  - Wash thoroughly after handling.

- FIRST AID :
- Use adequate fire fighting measures.
  - If inhaled, remove to fresh air . If not breathing , give artificial respiration. If breathing is difficult, give oxygen.
  - If swallowed, do not induce vomiting.
  - In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
  - Wash clothing before reuse.
  - In all cases get medical attention immediately.

### SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	CONCENTRATION (Wt. %)
Denaturing polyamido resin varnish	-	40 ~ 50
Xylene	1330-20-7	1 ~ 5
Ethylbenzene	100-41-4	1 ~ 5

### SECTION 4: FIRST AID MEASURES

- SKIN CONTACT : Remove contaminated clothing and foot wear. Wash skin thoroughly with plenty of clean, fresh water and soap or proper skin cleaner. DO NOT use thinners and solvents. Wash clothing before reuse.
- EYE CONTACT : Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, get medical attention
- INHALATION : Remove to fresh air, keep the patient warm and at rest. Administer artificial respiration if breathing is irregular or has stopped. Get medical attention.
- INGESTION : DO NOT induce vomiting. Keep at rest. Get medical attention immediately.

### SECTION 5: FIRE FIGHTING MEASURES

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**EXTINGUISH MEDIA** CO2, alcohol resistant foam, dry chemical, powder spray, sand  
Cool exposed containers with water spray. Never direct water in the container in order

**INSTRUCTIONS :**  
to prevent any splashing of the product. Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**SMALL SPILL :** Remove all sources of ignition and ventilate the area. Absorb with an inert material such as sand, earth, vermiculite, diatomaceous earth and place in an appropriate waste disposal container.

**LARGE SPILL :** Stop leaking if without risk. Eliminate all sources of ignition. Contain with an inert disposal container. Warn unauthorized personnel to evacuate. Prevent entry into drains material recover as much as possible and place the remainder in an appropriate waste and sewers or confined areas. If the product enters drains and sewers contact the local water company immediately. In case of contamination of streams, rivers or lakes, contact local, regional or national authority.

## SECTION 7: HANDLING AND STORAGE

**PRECAUTIONS :** Use only in well ventilated areas. Avoid inhalation and contact with eyes, skin and clothing. Wear appropriate personal protective equipment. Ground and bond all containers when transferring the material. Empty containers may retain product and product vapor. DO NOT expose to heat, open flame, sparks, direct sunlight or other ignition sources such as cutting, welding, drilling, grinding or static electricity. DO NOT pressurize. Provide adequate safety showers and eyewashes in the area of use. Keep out of reach of children.

**STORAGE :** Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Smoking, eating and drinking should be prohibited in areas of storage and use. Keep out of reach of children.

## SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

**EXPOSURE LIMITS :** Xylene  
TLV TWA: 100(ppm) from ACGIH  
Ethylbenzene  
TLV TWA: 100(ppm) from ACGIH

**ENGINEERING CONTROLS :**  
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.  
Provide adequate safety showers and eyewashes in the area of use.

**PERSONAL PROTECTION :**

- EYE/FACE :** Personal Protective Equipment may vary depending on the job being performed. Wear eye protection such as safety glasses with side shields, splash goggles or face shield with safety glasses.
- SKIN :** Avoid skin contact. Impervious gloves should be worn. Other items may include long sleeves, lab coats, or impervious jackets.
- RESPIRATORY :** Determine if airborne concentrations are below the recommended exposure limits in accordance your company's PPE program and regulatory requirements. If they are not, select NIOSH-approved respirators are generally adequate protection from the concentration levels encountered. Air-purifying respirators are generally adequate for organic vapors. Use positive pressure, supplied air respirators if there is potential for an uncontrolled release. If exposure levels are unknown, or under circumstances where air-purifying respirators may not provide adequate protection.

**SECTION 9: TOXICOLOGICAL INFORMATION**

- PHYSICAL STATE :** Buff liquid.
- ODOR :** Agent smell
- BOILING POINT :** 82°C ~ 143°C
- VAPOR PRESSURE :** 399Pa(20°C)
- MELTING POINT :** 84°C
- FLASH POINT :** 26.7°C
- AUTO IGNITION POINT :** 427°C
- SPECIFIC GRAVITY :** 1.4( Water =1)
- SOLUBILITY :** Soluble in solvent
- VOC :** 295g/L

**SECTION 10: STABILITY AND REACTIVITY**

- STABILITY :** Stable under ordinary conditions of use and storage
- CONDITIONS OF INSTABILITY :** Heat
- HAZARDOUS DECOMPOSITION PRODUCTS :** Carbon Monoxide , Formaldehyde
- HAZARDOUS POLYMERIZATION :** Will not occur.
- INCOMPATIBILITY :** Heat, flame, strong oxidizers,acids, amine,base,water

**SECTION 11: STABILITY AND REACTIVITY**

- PRIMARY ROUTES OF ENTRY :** Skin contact, eye contact, inhalation, and ingestion.
- TOXICITY TO ANIMALS :** Xylene  
LD50: 400mg/kg (Rat)  
LC 50 : 3000ppm(Rat)  
Ethylbenzene  
LD50 : 3500mg/kg (Rat)

Titanium Dioxide  
LD50: 2400mg/kg (Rat)  
LC 50 : 6820mg/m3(Rat)

SPECIAL REMARKS ON TOXICITY TO ANIMALS :

Investigated as a mutagen and reproductive effector.

## SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE : When released to the atmosphere, it will photo-degrade in hours ( polluted urban atmosphere ) to an estimated range of 4 to 6 days in less polluted areas. Rain-out should be significant

ECO-TOXICITY : Insoluble in water

## SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL : Dispose of product in an appropriate and approved waste disposal facility in accordance with applicable national, prefectural and local regulations.

## SECTION 14: TRANSPORT INFORMATION

DOT SHIPPING NAME : Flammable Liquid  
UN NO : 1263  
UN HAZARDOUS CLASS : Class 3  
UN PACKAGE GROUP : PG III  
IMDG CODE : Class.3.3-Flammable high FP group

## SECTION 15: OTHER REGULATORY INFORMATION

OTHER REGULATIONS : This section does not reference all applicable regulatory compliance lists.

FIRE MANAGEMENT LAW : Category 4 Petroleum Group 2 ( Water insolubility)  
Hazardous Category III

INDUSTRIAL SAFETY AND HEALTH LAW : Toxic substance which should be noticed

REGULATION OF ORGANIC SOLVENTS INTOXICATION PREVENTION : Category 2

PRTR LAW :

Xylene	5%	Category I	53
Ethylbenzene	5%	Category I	85

## SECTION 16: OTHER INFORMATION

REFERENCE : Material Substance Database/ Japan Paint Industrial Association  
Pocket Book for Solvents  
Reference of Hazardous and Toxic Chemical Substance/  
Japan Industrial Safety and Health Association (JISHA)  
MSDS of other manufacturers

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