

## 1. IDENTIFICATION OF THE PREPARATION

Product Name	Polyurethane Injection Expanding Foam FX-PU1100
Typical application	Epoxy Bonding Agent
Company Name	Fastfix-it Enterprise Co., Ltd
Company Address	3F.,NO.296, QINGHAI RD., GUSHAN DIST., KAOHSIUNG CITY 804, TAIWAN (R.O.C)
Telephone/Fax	886-7-3756058 / 886-7-3756091
E-mail address	sales@fastfix-it.com

## 2. COMPOSITION ON INGREDIENTS

Cas#	Chemical Name	%	OSHA PEL	ACGUH TLV
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### COMPONENT A

### COMPONENT B

101-68-8	4, 4"-methylenediphenyl diisocyanate,	<25-50%	NE	NE
9016-87-9	Diphenylmethanediisocyanate, isomers and homologues	<25-50%	NE	NE

None of remaining components are considered a hazardous material or carcinogen  
(1910.1200 Hazard Communication (d) 4.)

NE= Not Established

NA=Not Applicable

## 3. HAZARDS IDENTIFICATION

**Note:** The classification, hazards statement and precautionary statements below  
represents those of parts A and B mixed in a 1 to 1 ratio before hardening/curing.

Physical hazards:	None
Health and Environmental Hazards:	
Skin Damage/Irritation	Category 2
Skin Sensitization	Category 1
Respiratory Sensitization	Category 1
Eye Damage/Irritation	Category 2
Acute Toxicity (Inhalation)	Category 4

Carcinogen	Category 2
Specific Target organ Toxicity: Single Exposure (Resp.)	Category 3

☞ **Hazard Statements:** Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause respiratory irritation.

#### 4. FIRE FIGHTING MEASURES:

Extinguishing Media:	Water, mist, fog, dry chemical, carbon dioxide, foam
Special Hazards Arising from the Substance/Mixture:	Product may generate toxic or corrosive gasses if burned, i.e. Carbon Dioxide (CO <sub>2</sub> ). Use appropriate respiratory protection.
Advice for Fire Fighters:	Wear full protective gear and self-contained breathing apparatus (SCBA) for significant fires

#### 5. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with eyes and skin.
Environmental Precautions:	Do not discharge into soil or aquatic environment
Method for Containment/Clean-up:	Absorb spill with cloth, paper towel, sand, or sawdust, etc. if only part A or B is spilled. Mix with an equal amount of the other part and allow to harden and then clean up the solid residue. Dispose properly in trash.

#### 6: HANDLING AND STORAGE

Handling Precautions:	For professional use only. Avoid eye/skin contact. Wash water after using and before eating or smoking. Avoid breathing vapors. Use as directed. Avoid uncontrolled mixing with other mixtures (strong acids, bases and oxidizers). Do not use solvent to thin. Respiratory protection is required when ventilation is inadequate. NIOSH/OSHA approved respirators should be provided and worn.
Storage Requirements:	Store in cool/dry location. Keep away from extreme

heat. Do not allow material to freeze. As product may be damaged. Store away from sparks and open flames.

## 7. FIRST AID MEASURES

General information	<p>Seek medical advice. If breathing has stopped or is labored, give assisted respirations.</p> <p>Supplemental oxygen may be indicated. If the heart has stopped trained personnel should begin cardiopulmonary resuscitation immediately.</p>
Skin contact	<ul style="list-style-type: none"> <li>● Remove contaminated clothing and shoes. Wash affected are(s) thoroughly with soap and water. If irritation persists, seek medical attention.</li> <li>● SOLVENT SHOLUD NOT BE USED because they carry the irritant into the skin.</li> </ul>
Eye contact	<ul style="list-style-type: none"> <li>● Flush the eyes with plenty of water for at least 15 minutes. If necessary, gently hold eyelids open during the flush. Immediately seek medical attention.</li> </ul>
Ingestion	<ul style="list-style-type: none"> <li>● Obtain immediate medical attention or call poison control center. Do not induce vomiting. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomit into the lungs.</li> </ul>
Inhalation	<ul style="list-style-type: none"> <li>● If respiratory irritation occurs. Go to fresh air. Flood work area with fresh air. If irritation continues seek medical attention.</li> </ul>

## 8. FIRE FIGHTING MEASURES

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## 9. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls:	HMIS PP, H I Splash Goggles, Gloves, Apron, Vapor Respirator Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.
Personal Protective Equipment: RESPIRATORY PROTECTION: None normally required. Use a NIOSH approved organic vapor chemical	cartridge respirator when air movement is inadequate to control vapor build-up. EYE/FACE PROTECTION: Wear splash proof chemical goggle/full face shield if there is a potential for splashing. SKIN/BODY PROTECTION: Wear suitable gloves (neoprene, nitrile rubber or PVC) and protective clothing to mitigate exposure. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

## 10. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Yellow to brown viscous liquid
pH	Not Applicable (non-aqueous)
Odor	Mild
Melting point/Freezing point:	Not Determined
Boiling Point:	Not Determined
Evaporation Rate:	Not Determined
Flash Point:	>93°C /200°F
Flammability:	Not Determined

Upper/Lower Flammability Limits:	Not Determined
Vapor Pressure:	Not Determined
Vapor Density:	Not Determined
Relative Density:	Part A: 1.0; Part B 1.2.
Solubilities:	Insoluble in water
Partition Coefficient (n-Octano-Water):	Not Determined
Autoignition Temperature:	Not Determined
Decomposition Temperature:	Not Determined
Viscosity:	Not Determined
Explosive Properties:	Not explosive
Oxidizing properties:	Not an oxidizer
Other:	Not a VOC

## 11. STABILITY & REACTIVITY

Stability:	Stable
Conditions to Avoid:	Moisture
Hazardous Decomposition Products:	Nitrogen oxides, Carbon dioxide, Isocyanate, Isocyanic acid
Hazardous Polymerization:	Other material that react with isocyanates, or temperatures above 350°F (177°C )

## 12. TOXICOLOGICAL INFORMATION

Primary Irritant effect:	
On the skin:	Irritant to skin and mucous membranes.
On the eye:	Irritating effect.
Sensitization:	
Inhalation:	Sensitization possible through inhalation
Skin Contact:	Sensitization possible through skin contact.
Additional toxicological information:	The product shows the following dangers according to internally approved calculation Methods for preparations: Harmful and irritant.

## 13. ECOLOGICAL INFORMATION

AQUATIC TOXICITY	Very toxic to aquatic organisms, may cause long term adverse effects in the.
Toxicity to other organisms:	No data available.

## 14. DISPOSAL CONSIDERATIONS

When disposed of properly, this material does not meet RCRA classification or listing for hazardous waste. Never dispose of liquid to a landfill. Spilled material should be stabilized or solidified prior to disposal. Once stabilized/solidified, the material may be disposed of through normal means. Certain localities and state laws specific disposal requirements for non-hazardous industrial chemicals. Consult local municipal authorities, and full personnel companies for details prior activity. Always follow local. State and federal regulations.

## 15. TRANSPORT INFORMATION

DOT	Not Regulated
IMDG:	Not Regulated
IATA:	Not Regulated

## 16. REGULATORY INFORMATION

All components of this product are on the TSCA inventory. Superfund amendments and Reauthorizations:

Hazard Categories Immediate Hazard:	Yes
Delayed Hazard:	Yes
Fire Hazard:	No
Pressure Hazard:	No.
Reactivity Hazard:	No

Prop 65: This product does not contain a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

## 17. OTHER INFORMATION

The information contains herein is, to the best of our knowledge and belief, accurate and current as of the date of this MSDS. However, since the conditions of handling and use are beyond our control. We make no guarantee of results and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representation or warranties either expressed or implied. As to its correctness, or as of merchantability, fitness for a particular purpose, or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers or as to the results or reliance of this product. It is responsibility of the user to comply with all applicable federal. State and local laws and regulations.