

Material Safety Data Sheet  
FL-QM-NHRSF, BL Tech Co., Ltd

**1 PRODUCT AND COMPANY IDENTIFICATION**

**1.1 PRODUCT IDENTIFIER**

**Product name:** Tech form – Ortho Roll  
**General chemical characteristics:** Isocyanate terminated polyurethane resin.  
**Analysis of noxiousness:** Chronic exposure & contact may cause noxiousness  
**Usage:** Designed for applying pressure on, fixing, and giving support to specific areas of the body suffering complete or simple (twists, sprains, or impaired ligaments) fractures

**1.2 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET**

**Supplier:** BL Tech Co., Ltd.  
 84, Toegyeonggong-ro, Chuncheon-si,  
 Tel:+82-70-7449-7505, Fax:+82-31-629-5216

**1.3 EMERGENCY TELEPHONE NUMBER:**

Emergency phone number: Tel:+82-70-7449-7505

**2 HAZARDS IDENTIFICATION**

**GHS classification:**

Health 1  
 Fire 1  
 Reactivity 0

**Symbols**



**Signal words**

Warning

**Hazard statements**

H312 Harmful in contact with skin  
 H315 Cause skin irritation  
 H317 May cause an allergic skin reaction  
 H330 Fatal if inhaled  
 H334 May cause an allergic or asthma symptoms or breathing difficulties if Inhaled

**Precautionary statements**

**Prevention**

P201 Obtain special instruction before use  
 P202 Do not handle until all precautions have been read and understood.  
 P262 Do not get in eyes, on skin, or on clothing.

**Response**

P301+P310 IF SWALLOWED : immediately call a POSION CENTER or doctor/physician  
 P302+P350 IF ON SKIN : Gently wash with plenty of soap and water  
 P305+P351+P338 IF IN EYES : Rinse cautiously with water for several minute. Remove contact lenses, if present and eyes to do. Continue rinsing.  
 P332+P313 If skin irritation or rash occur : Get medical advice/attention.  
 P337+P313 If eye irritation persists : Get medical advice/attention.

**Storage**

P402 Store in a dry place.  
 P403 Store in a well-ventilated place.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

**Disposal**

P501 Dispose of contents/container to in accordance with local/national regulation

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### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	Trade name/synonyms	Cas no or i.d no	Content(%)
Fiberglass fabric	E Glass filament-fiber	65997-17-3	50%
Polymer of diphenyl methane 4,4-diisocyanate & polyether polyol	NHR-1000 / Isocyanate prepolymer	-	40%
Polypropylene	Polypropylene staple fiber	9003-07-0	10%

### 4 FIRST AID MEASURES

<b>Eye contact</b>	Wash eyes immediately with large amounts of water or normal saline, until no evidence of chemical remains. (at least 15~20 minutes) get medical attention immediately
<b>Skin contact</b>	Remove contaminated clothing and shoes immediately. If skin is intact gently remove excess polymer, and immediately flush with undiluted isopropyl alcohol, then with large amount of water. If the skin is irritated, use diluted isopropyl alcohol.
<b>Inhalation</b>	Perform artificial respiration if necessary. Keep person warn and at rest. Treat symptomatically and supportively.
<b>Ingestion</b>	If vomiting occurs, keep head lower than hips to help Prevent aspiration. Treat symptomatically and supportively. Get medical attention if needed.
<b>Note to physician</b>	No specific antidote. Treat symptomatically and supportively.

### 5 FIRE-FIGHTING MEASURES

<b>Flash point</b>	Over than 200°C
<b>Autoignition</b>	380°C
<b>Lower/upper flammable limit</b>	No data available
<b>Framable class</b>	Osha: III b
<b>Extinguishing media</b>	Dry chemical, carbon dioxide, water spray or regular foam for Larger fires, use water spray, fog or regular foam.
<b>Fire fighting</b>	Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors, keep upwind.
<b>Hazardous combustion products</b>	Thermal decomposition products may include highly toxic fumes of hydrogen cyanide, toxic oxide of carbon and nitrogen, and Hazardous isocyanates.

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## 6 ACCIDENTAL RELEASE MEASURES

<b>Necessary points to protect human body</b>	Keep unnecessary people away: Isolate hazard area and restrict entry.
<b>Necessary points to protect ecology</b>	Take up with sand or other absorbent material and place into containers for later disposal.
<b>Defecation or remove</b>	An decontamination solution is a mixture containing 20parts, isopropyl alcohol, 40parts concentrated ammonia, 2-5parts Household type detergent plus water to make 100 parts Soil spill: use cement powder or fly ash to absorb liquid mass

## 7 HANDLING AND STORAGE

<b>Handling</b>	Observe all federal, state and local regulations when Storing this substance. Store away from incompatible substances.
<b>Storage</b>	Keep container closed when not use and store In cool dry area.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering control</b>	No information is available.
<b>Respiration protection</b>	Self-contained breathing apparatus. Air purifying, full face piece respirator. (gas mask) Supplied-air respirator.
<b>Eye protection</b>	Safety goggles
<b>Hand protection</b>	Appropriate protective gloves.
<b>Body protection</b>	Appropriate protective (impervious) clothing and equipment.
<b>Cautions</b>	Provide local exhaust or general dilution ventilation to meet published exposure limits.
<b>Max. Concentration</b>	No data available

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>General Information</b>	
<b>Appearance:</b>	Light yellow liquid
<b>Odor</b>	A characteristic odor
<b>PH</b>	No data available
<b>Water solubility</b>	React
<b>Boiling point</b>	No data available
<b>Melting point</b>	Over than 10°C
<b>Explosion</b>	No data available
<b>Oxidative</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Specific gravity</b>	1.12 (25°C)
<b>Distribution</b>	No data available
<b>Vapor density</b>	No data available
<b>Viscosity</b>	15,000±5,000(cps/30±1°C)

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## 10 STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable under normal temperatures and pressures
<b>Conditions to avoid</b>	May burn but does not ignite readily. Avoid contact with strong oxidizers, excessive heat, sparks, or open flame.
<b>Substances to avoid</b>	Oxidizers (strong): fire and explosion hazard.
<b>Hazardous decomposition</b>	Thermal decomposition products may include highly toxic fumes of hydrogen toxic oxides of carbon and nitrogen, and hazardous isocyanate.
<b>Polymerization</b>	Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

## 11 TOXICOLOGICAL INFORMATION

<b>Influence to eye</b>	Isocyanates may cause irritation with lacrimation and possibly conjunctivitis.
<b>Influence to skin</b>	Isocyanates may cause irritation with skin conditions ranging from Itching to widespread eczema. Allergic sensitization is possible, but only rarely.
<b>Acute oral</b>	No data available
<b>Acute suction</b>	No data available
<b>Toxicity of generation</b>	No data available
<b>Chronic</b>	No data available

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulative potential</b>	No data available
<b>Mobility in oil</b>	No data available
<b>Other adverse effects</b>	No data available

## 13 DISPOSAL CONSIDERATIONS

- 13.1 **WASTE DISPOSAL REGULATION**  
Observe all federal, state and local regulations when disposing of this substance.
- 13.2 **WASTE DISPOSAL METHOD**  
**Packing & core**  
Destroy the product by incineration

## 14 TRANSPORT INFORMATION

<b>UN number</b>	No data available
<b>UN proper shipping name</b>	Not available
<b>Transport hazard class</b>	Not available
<b>Packing group(if applicable)</b>	Not available
<b>Marin pollution</b>	No data available

## 15 REGULATORY INFORMATION

<b>Industrial Safty and Health Act</b>	No data available
<b>Toxic Chemical Control Act</b>	No data available

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<b>Dangerous Material Safty Control Act</b>	No data available
<b>Waste Management Act</b>	No data available
<b>Other requirements in domestic and other countries</b>	Not applicable

## 16 OTHER INFORMATION

### Information source and reference

Korea industrial safety cooperation, Mdl information system inc. Co. (u.s)