

# Safety Data Sheet

## IDENTIFICATION

**PRODUCT NAME** : CoverMAX®

**COMPANY** : Foamtec International Co., Ltd.

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**Material 1 : Flexible Polyurethane foam**

## 1.1 HAZARD IDENTIFICATION

**ROUTES OF ENTRY** : Inhalation - Foam dust

**HEALTH HAZARDS** : Coares dust can cause mechanical irritation of lungs and eyes.  
Airbone dust is evaluated as a nuisance dust. If ignited foam may decompose and emit toxic gases and respiratory.

### CARCINOGENICITY

**NTP** : None  
**IARC MONOGRAPHS** : No  
**OSHA REGULATED** : No

### MEDICAL CONDITIONS

**AGGRAVATED BY EXPOSURE** : None Known

### EMERGENCY FIRST AID PROCEDURES

**INHALATION** : Remove to fresh air, contact physician if respiratory discomfort persists.

**EYES** : Flush eyes thoroughly with water for 15 minutes.

**SKIN** : None necessary

**INGESTION** : None necessary

## 1.2 COMPOSITION/ INFORMATION ON INGREDIENTS

**NOT APPLICABLE** : No established OSHA Permissible Exposure Limit or ACGIH threshold Limit Value.  
Foamtec Polyurethane foam is a fully cross-linked reaCtion product of Polyhydroxy polyol, toluene di isocyanate, catalysts, surfactant, pigment and water. Polyurethane foam product is a polymeric material consisting of repeating units of carbon, hydrogen, oxygen and nitrogen.

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## 1.3 FIRST AID MEASURES

NOT APPLICABLE

## 1.4 FIRE - FIGHTING MEASURES

**FLASH POINT** : Decomposition products flash at 500 °F

**FLAMMABLE LIMITS** : Not applicable

**UEL** : Not applicable

**LEL** : Not applicable

**CLASSIFICATION** : Combustible Solid

**NFPA SPRINKLER CLASSIFICATION** : Extra Hazard

**EXTINGUISHER MEDIA** : Dry Chemical, Water, Carbondioxide

**SPECIAL FIRE FIGHTING PROCEDURES** : Wear self-contained breathing apparatus in enclosed areas.

**UNUSUAL FIRE & EXPLOSION HAZARDS** : If ignited, foam can produce rapid flame spread, intense heat, dense black smoke. Accumulated polyurethane dust can be readily ignited and presents a fire risk. High concentrations of dust in the air can explode if exposed to a flame, spark or other ignition oxidizing sources.

## 1.5 ACCIDENTAL RELEASE MEASURES

NOT APPLICABLE

## 1.6 HANDLING AND STORAGE

**STEP TO BE TAKEN IN CASE MATERIALS IS RELEASED OR SPILLED** : No special response required ---sweep up.

**WASTE DISPOSAL METHOD** : Federal, state and local authorities should be contacted before attempting any form of disposal.

**SAFE HANDLING AND STORAGE** : Warehousing of bun stock, sheets, rolls, and fabricated items should be stored under a fusible sprinkler system with a minimum of six feet clearance between stacks of foam and the sprinkler heads.

Do not store foam near any ignition sources such as exposed electrical or gas heating elements, open flames and exposed lights. Do not smoke in foam storage areas.

Do not allow foam scrap and cuttings to accumulate and maintain clear aisles with adequate access to all storage areas and exits.

**OTHER PRECAUTIONS** : Notify local fire companies of presence of large quantities of foam.

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## 1.7 EXPOSURE CONTROLS / PERSONAL PROTECTION

- VENTILATION** : Local exhaust ventilation is recommended for this processing procedures which may generate foam dust and decomposition products. Examples of these processes include sawing, grinding, buffing and flame lamination, hot wire cutting, heat sealing and hot stamping.
- RESPIRATORY PROTECTION** : Should be selected based on identity and concentration of air contaminant. Only NIOSH-approved respirators for protection against the air contaminant of concern should be used.
- EYE PROTECTION** : Recommended for those processing operations which may generate dust.

## 1.8 PHYSICAL AND CHEMICAL PROPERTIES

- BOILING POINT** : Not applicable
- MELTING POINT** : 350 - 375 °F
- VAPOR PRESSURE (mmHg)** : Not applicable
- VAPOR DENSITY** : Not applicable
- DENSITY** : 1.1 - 20 lbs/cfc
- EVAPORATION RATE** : Not applicable
- SOLUBILITY IN WATER** : Insoluble
- APPEARANCE AND ODOR** : Uniform cellular solid structure of varying colors with slight characteristic odor.

## 1.9 STABILITY AND REACTIVITY

### STABILITY CONDITIONS TO AVOID INCOMPATIBILITY HAZARDOUS DECOMPOSITION PRODUCT

- : Stable  
High temperature, open flames; strong oxidizers (i.e. hypochlorites)  
Strong oxidizing acids - will degrade.
- PRODUCTS** : CO, acetaldehyde, acrylonitrile, polymer fragments, oxides of nitrogen and hydrogen cyanide.
- HAZARDOUS POLYMERIZATION** : Will not occur.

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## 1.10 TOXICOLOGICAL INFORMATION

Based on extensive history of use, product is considered generally non-toxic, non-irritating and with little or no potential for allergic reactions. Some foams (particularly those intended for toy use) have been tested for acute eye, skin and ingestion toxicity per 16CFR 1500.3, 1500.40 and 1500.42 (animal toxicity) with no evidence of acute toxicity. Some foams have been tested for human skin irritation (sensitization) with no evidence for sensitizing potential. Foam is generally not recommended for contact with open wounds or for internal use where extractable may be absorbed into the body unless appropriate testing has been done.

## 1.11 ECOLOGICAL INFORMATION

**CHEMICAL FATE INFORMATION** : Biodegradation will occur slowly in the presence of light and air.

## 1.12 DISPOSAL CONSIDERATION

NOT APPLICABLE

## 1.13 TRANSPORT INFORMATION

**SUGGESTED SHIPPING NAME** : Flexible Polyurethane Foam (Not currently regulated by DOT).  
**HAZARD CLASS** : Not applicable  
**HAZARD ID** : Not applicable  
**UN/NA** : Not applicable

## 1.14 REGULATORY INFORMATION

### FEDERAL REGULATIONS

**TSCA** : All components are listed. There is no listing for the finished polymer.  
**OSHA** : Defined as article (29CFR 1910.1200)  
**CERCLA** : Not reportable.

### SARA TITLE III

311/312 Hazard Categories : None

**CLEAN AIR ACT** : No ozone depleting emissions.

### INTERNATIONAL REGULATION

**CANADIAN WHIMS** : Defined as manufactured article.  
**EUROPEAN (ECC)** : None Known.

### STATE REGULATION

**CALIFORNIA** : Although some ingredients used in the manufacture of foam require listing under Proposition 65, they are not present in sufficient quantity in the finished product to require listing, (Also consider implications of water spills and fire run off).

**OTHER STATES** : None Known.

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**Material 1**      **Flexible Polyurethane Foam**

## 1.15 OTHER INFORMATION

Flexible polyurethane foam, like all organic materials, will burn if exposed to a sufficient heat source.

The ignition temperature of polyurethane foam will vary depending on the product chemical formulation, but all polyurethane foam are combustible and can create a fire risk. Flexible polyurethane foams, once ignited, may degrade and melt to a combustible liquid which may add to the fire involvement.

Term such as "fire retardant", "slow burning" and "flame resistant" describe certain flammability properties and should not be regarded as denoting fire safety under all conditions. Small scale fire tests are not intended to reflect hazards presented by these or any other material under real fire conditions.

Thermal decomposition products from polyurethane foams can be toxic and present a risk to humans who are exposed. This is true for all organic materials. Fire risks in varying degrees are common to all fires: heat, carbon monoxide, other toxicants, oxygen depletion and smoke. In fires involving polyurethane foam, particularly flexible foams, large quantities of dense smoke can be generated quickly.

Personnel involved in fire fighting should wear self-contained breathing apparatus and be aware of the exposure to toxic and potentially lethal gases. Standard fire-fighting equipment generally employed by authorized firemen is mandatory.

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# Safety Data Sheet

Material 2 : Polyester

## 2.1 HAZARD IDENTIFICATION

LD50 LC50 MIXTURE : Not provided.

INHALATION : NO.

SKIN : NO.

INGESTION : NO.

OSHA : NO.

### HEALTH HAZARDS ACUTE AND CHRONIC

: Product is in solid form and will not become airborne except under extreme conditions. Even then it shows no toxic reaction.

EXPLANATION OF CARCINOGENICITY : IARC lists nylon & polyester as "No adequate evidence".

SIGNS AND SYMPTOMS OF OVEREXPOSURE : None.

MEDICAL COND AGGRAVATED BY EXPOSURE : Not provided.

## 2.2 COMPOSITION/ INFORMATION ON INGREDIENTS

POLYESTER

## 2.3 FIRST AID MEASURES

Use normal first aid procedures.

## 2.4 FIRE - FIGHTING MEASURE

FLASH POINT (METHOD USED) : Marked Class1 "Did Not Ignite" by test method ASTM D1230-1994

FLAMMABLE LIMITS : Marked Class1 "Did Not Ignite" by test method ASTM D1230-1994

EXTINGUISHING MEDIA : Self-extinguishing-water or other class a extinguish agent.

FIRE FIGHTING PROCEDURES : Use NIOSH/MSHA approved SCBA in an enclosed area in fires.

UNUSUAL FIRE / EXPLOSION HAZARD : None indicated by the MFR.

## 2.5 ACCIDENTAL RELEASE MEASURES

Spill Release Procedures : Use proper personal protection; use normal procedures and collect for  
: proper disposal. Nylon fibers and polyester fibers are not toxic.

Neutralizing Agent : Not provided.

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## 2.6 HANDLING AND STORAGE

Handling and Storage Precautions : Store in a cool, dry, well ventilated area.  
Other Precautions : Not Provided.

## 2.7 EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION : None expected to be necessary.  
VENTILATION : Normal room ventilation.  
PROTECTIVE GLOVES : None.  
EYE PROTECTION : Safety glasses or splash goggles.  
OTHER PROTECTIVE EQUIPMENT : As required to prevent prolonged contact.  
WORK HYGIENIC PRACTICES : Use good industrial hygiene practice. Avoid unnecessary contact.  
SUPPLEMENTAL SAFETY AND HEALTH : Not provided.

## 2.8 PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT : Not Provided.  
MELTING POINT : 249 – 252 °C  
VAPOR PRESSURE : Not Provided.  
VAPOR DENSITY : Not Provided.  
SPEC GRAVITY : 1.15  
pH : N/A  
VICOSITY : Not Provided.  
EVAPORATION RATE & REFERENCE : Not Provided.  
SOLUBILITY IN WATER : Insoluble.  
APPEARANCE AND ODOR : White color with a knitting fabrics appearance, No odor.  
PERCENT VOLATILES BY VOLUME : <1.0  
CORROSION RATE : Not Applicable.

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Material 2 : Polyester

## 2.9 STABILITY AND REACTIVITY

STABILITY INDICATOR / : Strong acid, formic acid, phenols, cresol.

MATERIALS TO AVOID

STABILITY CONDITION TO AVOID : Melts at 243 °C

HAZARDOUS DECOMPOSITION PRODUCTS : At temp > 660 °F : CO, CO<sub>2</sub>, FRAGMENTS OF ORIGINAL MONOMER

HAZARDOUS POLYMERIZATION INDICATOR : NO.

CONDITIONS TO AVOID POLYMERIZATION : None noted.

## 2.10 TOXICOLOGICAL INFORMATION

NOT APPLICABLE

## 2.11 ECOLOGICAL INFORMATION

NOT APPLICABLE

## 2.12 DISPOSAL CONSIDERATION

NOT APPLICABLE

## 2.13 TRANSPORT INFORMATION

NOT APPLICABLE

## 2.14 REGULATORY INFORMATION

NOT APPLICABLE

## 2.15 OTHER INFORMATION

NOT APPLICABLE

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