SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER
Product Name: GacoFlex® LM60 - Part B
Product Code: LM60B, LM60B-Q, LM60B-8Z, LM60B-55

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE
Product Use: Architectural Coating and Waterproofing
Use this product in accordance with all local, regional, national and international regulations.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET
Name/Address: Gaco Western LLC
1245 Chapman Dr.
Waukesha, WI, 53186-5942
USA
Telephone Number: 800-331-0196 / International: 001-800-331-0196
Email: sds@gaco.com
Website: www.gaco.com

1.4 EMERGENCY TELEPHONE NUMBER
For Chemical Emergency
Spill, Leak, Fire, Exposure, or Incident
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1-703-527-3887 (collect calls accepted)

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL
Hazard class:

<table>
<thead>
<tr>
<th>HAZARD CLASSIFICATION</th>
<th>CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity – Inhalation</td>
<td>4</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>2</td>
</tr>
<tr>
<td>Eye Damage/Irritation</td>
<td>2A</td>
</tr>
<tr>
<td>Sensitization – Skin</td>
<td>1</td>
</tr>
<tr>
<td>Sensitization – Respiratory</td>
<td>1</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>2</td>
</tr>
<tr>
<td>STOT SE – Specific Target Organ Toxicity (Single Exposure)</td>
<td>3</td>
</tr>
<tr>
<td>STOT RE – Specific Target Organ Toxicity (Repeated Exposure)</td>
<td>2</td>
</tr>
</tbody>
</table>

2.2 LABEL ELEMENTS
Hazard pictogram: GHS07, GHS08
Signal word: Danger

Hazard statement: Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
Harmful if inhaled
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause respiratory irritation
Suspected of causing cancer
May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure

Prevention: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation, wear respiratory protection.

Response: Specific treatment (see Section 8 on this label).
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
If skin irritation or a rash occurs: Get medical advice/attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a poison/doctor.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 ADDITIONAL INFORMATION
Main symptoms: Prolonged exposure may cause chronic effects. Suspected of causing cancer.
May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure. May cause respiratory irritation. Difficulty breathing.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. Lung damage and respiratory sensitization may be permanent.

Hazards not otherwise specified: Harmful to aquatic life with long lasting effects.

0% of the mixture consists of ingredient(s) of unknown acute toxicity
3.1 MIXTURES

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS No.</th>
<th>Weight %*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and</td>
<td>26471-62-5</td>
<td>30-60%</td>
</tr>
<tr>
<td>toluene-2,6-di-isocyanate (TDI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,2,4-Trimethyl-1,3-pentanediol</td>
<td>144-19-4</td>
<td>10-30%</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURES

General information: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison center immediately.

Skin contact: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. In case of eczema or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Prolonged exposure may cause chronic effects. Suspected of causing cancer. May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure. May cause respiratory irritation. Difficulty breathing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Dermatitis. Rash. Skin irritation. May cause redness and pain. May cause allergic skin reaction. Dermatitis. Rash. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Skin contact with TDI can cause discoloration. Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory
tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g. fever, chills) has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to physicians:

Treat symptomatically. Symptoms may be delayed.

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision.

Skin: This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn.

Ingestion: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound.

Inhalation: Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate.

Specific treatments: In case of accident or if you feel unwell, seek medical advice (show the label or SDS where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

General hazards: No unusual fire or explosion hazard.

Suitable extinguishing media: Foam, CO2 or dry powder. Water spray may be used if no other available and then in copious quantities. Reaction between water and hot isocyanate may be vigorous. Prevent washings from entering water courses, keep fire exposed containers cool by spraying with water.

Unsuitable extinguishing media: Do not use water jet as an extinguisher as this will spread the fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Specific hazards: During fire, gases hazardous to health may be formed.

Products of combustion: May include, and are not limited to: carbon oxides (CO, CO2) nitrogen oxides (NO, NO2 etc.) hydrocarbons, isocyanate vapors, and hydrogen cyanide.

5.3 Special protective equipment and precautions for fire-fighters (PPE)

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire-fighting procedures: Keep upwind of fire. Move containers from fire area if you can do it without risk.
During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Exposure to heated diisocyanate can be extremely dangerous.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
Immediately contact emergency personnel. Evacuate the area. Keep upwind to avoid inhalation of vapors. Clean-up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. Use suitable protective equipment (section 8). Keep unauthorized persons away.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP
Methods for containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning-up: Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Following product recovery, flush area with water. For waste disposal, see Section 13 of the SDS.

If the product is in its solid form: Spilled TDI flakes should be picked up carefully. The area should be vacuum cleaned to remove remaining dust particles completely.
If the product is in its liquid form: Absorb spillages onto sand, earth or any suitable absorbent material. Leave to react for at least 30 minutes. Do NOT absorb onto sawdust or other combustible materials. Shovel into open-top drums for further decontamination. Wash the spillage area with water. Test atmosphere for TDI vapour. Neutralise small spillages with decontaminant. Remove and dispose of residues. The compositions of liquid decontaminants are: (percentages by weight or volume):
- Decontaminant 1: * sodium carbonate: 5 - 10 % * liquid detergent: 0.2 - 2 % * water: to make up to 100 %
- Decontaminant 2: * concentrated ammonia solution: 3 - 8 % * liquid detergent: 0.2 - 2 % * water: to make up to 100 %
Decontaminant 1 reacts slower with diisocyanates but is more environmentally friendly than decontaminant 2.
Decontaminant 2 contains ammonia. Ammonia presents health hazards. (See supplier safety information.)

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Prevent product from entering drains.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Never return spills to original containers for re-use.

Environmental precautions: Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 7: HANDLING AND STORAGE
7.1 PRECAUTIONS FOR SAFE HANDLING
Safe handling advice: Observe good industrial hygiene practices.

Do not breath vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor) are NOT adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do NOT breathe smoke and gases created by overheating or burning this material. Decomposition products can be highly toxic and irritating. Store in tightly closed containers to prevent moisture contamination. Do NOT reseal if contamination is suspected.

General hygiene advice: Ensure that medical personnel are aware of the materials(s) involved, and take precautions to protect themselves.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Store away from incompatible materials.
Minimum: 50°F (10°C)
Maximum: 86°F (30°C)

Specific use: Architectural Coating and Waterproofing

Technical measures: No specific recommendations.

Incompatible materials: Copper, copper alloy and galvanized surfaces. Moisture sensitive.

Safe storage: Store away from incompatible materials. Store in tightly closed containers to prevent moisture contamination. Do NOT reseal if contamination is suspected.

Safe packaging material: No specific recommendations.

Precautions: Use personal protective recommended in Section 8 of the SDS.

Safe handling advice: Observe good industrial hygiene practices.

Suitable storage conditions: Store away from incompatible materials. Store in tightly closed containers to prevent moisture contamination. Do NOT reseal if contamination is suspected.

Handling-technical measures: No specific recommendations.

Local and general ventilation: Provide adequate ventilation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS
Control parameters: Follow standard monitoring procedures.

Exposure limits:

Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate
OSHA: PEL-C ppm: 0.02, PEL-C mg/m3: 0.14
8.2 EXPOSURE CONTROLS

Engineering measures to reduce exposure:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Provide sufficient air exchange and/or exhaust in work rooms. In all workplaces or parts of the plant where high concentrations of isocyanate aerosols and/or vapors may be generated (e.g. during pressure release, mold venting or when cleaning mixing heads with an air blast), appropriately located exhaust ventilation must be provided in order to prevent occupational exposure limits from being exceeded. The air should be drawn away from the personnel handling the product. The efficiency of the ventilation system must be monitored regularly because of the possibility of blockage. Atmospheric concentrations should be minimized and kept as low as reasonably practicable below the occupational exposure limit.

8.3 INDIVIDUAL PROTECTIVE MEASURES

General: Use personal protective equipment as required.

Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. Lung damage and respiratory sensitization may be permanent.

All applicants who are assigned to an isocyanate work area should undergo a pre-placement medical evaluation. A history or eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Applicants who have a history of adult asthma should be restricted from work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates. Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted.

Eye protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear appropriate chemical resistant gloves. Nitrile rubber showed excellent resistance. Butyl rubber, neoprene and PVC are also effective.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Airborne TDI concentrations greater than the ACGIH TLV-TWA (TLV) or OSHA PEL-C- (PEL) can occur in inadequately ventilated environments when TDI is sprayed, aerosolized, or heated. In such cases, respiratory protection must be worn. The type of respiratory protection selected must comply with the requirements set forth in OSHA’s Respiratory Protection Standard (29 CFR 1910.134). The type of respiratory
protection available includes (1) an atmosphere-supplying respiratory such as a self-contained breathing apparatus (SCBA) or a supplied air respirator (SAR) in the positive pressure or continuous flow mode, or (2) an air purifying respirator (APR). If an APR is selected then (a) the cartridge must be equipped with an end-of-service life indicator (ESLI) certified by NIOSH, or (b) a change out schedule, based on objective information or data that will ensure that the cartridges are changed out before the end of their service life, must be developed and implemented. The basis for the change out schedule must be described in the written respirator program. Further, if an APR is selected, the airborne diisocyanate concentration must be no greater than 10 times the TLV or PEL. The recommended APR cartridge is an organic vapor/particulate filter combination cartridge (OV/P100).

Skin and body protection: Wear appropriate chemical resistant clothing. Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

Control parameters: Follow standard monitoring procedures. Local exhaust should be used to maintain levels below the TLV whenever TDI is heated, sprayed, or aerosolized. Standard reference sources regarding industrial ventilation (e.g. ACGIH Industrial Ventilation Manual) should be consulted for guidance about adequate ventilation. To ensure that published exposure limits have not been exceeded, monitoring for airborne diisocyanate should become part of the overall employee exposure characterization program. NIOSH, OSHA, and others have developed sampling and analytical methods. These are available through various suppliers. Gaco Western does not supply these sampling methods directly.

Environmental exposure controls: Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear light amber liquid</td>
</tr>
<tr>
<td>Color</td>
<td>light amber</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Musty, mild solvent</td>
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<tr>
<td>Odor Threshold</td>
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<tr>
<td>Physical State</td>
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<tr>
<td>pH (at 20°C)</td>
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</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;200°F/&gt;93°C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>Lower Flammability/Explosive Limit</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY
The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2 CHEMICAL STABILITY
Chemical stability:
Material is stable under normal conditions.

Materials to avoid:
Copper, copper alloy, galvanized surfaces, water, amines, strong bases, alcohols. Moisture sensitive.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS
Hazardous reactions:
Moisture sensitive. Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F (177°C), may cause polymerizations.

10.4 CONDITIONS TO AVOID
Contact with incompatible materials. Temperatures above 350°F (177°C).

10.5 INCOMPATIBLE MATERIALS
Copper, copper alloy, galvanized surfaces, water, amines, strong bases, alcohols.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous decomposition products: By fire and high heat: Carbon dioxide (CO2), Carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke, isocyanate, isocyanic acid, other undetermined compounds.

Hazardous polymerization:
Moisture sensitive. Contact with moisture, other materials that react with isocyanates, or temperatures above 350°F (177°C), may cause polymerizations.

Other information:
Not available.

SECTION 11: TOXICOLOGICAL INFORMATION
11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

**Acute toxicity:**
Harmful if inhaled. May cause respiratory irritation. Difficulty breathing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Dermatitis. Rash. Causes skin irritation. May cause redness and pain. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**Likely routes of exposure:**
Skin contact. Eye contact. Inhalation.

**Eye:**
Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**Skin:**
Causes skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Contact with TDI can cause discoloration. Animal tests and other research indicate that skin contact with TDI can play a role in causing isocyanate sensitization and respiratory reaction. This data reinforces the need to prevent direct skin contact with isocyanates.

**Ingestion:**
Not an expected route of exposure. Expected to be a low ingestion hazard.

**Inhalation:**
Harmful if inhaled. May cause respiratory irritation. Difficulty breathing. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g. fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

**LD50/LC50 values relevant to this classification:**

**Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate**
- Oral mouse LD50 >2,000 mg/kg bw
- Oral rat LD50 >2,000 mg/kg bw
- Oral rat LD50 5840 mg/kg bw
- Inhal rat LC50 66 ppm (95 % CL: 31 -141 ppm)
- Inhal rat LC50 350-360 mg/m3 air 4hr
- Inhal rat LC50 14.1-19 ppm air 6hr
- Derm rabbit LD50 > 9400  mg/kg bw no deaths

**Calculated overall chemical acute toxicity values for this formulation:**

<table>
<thead>
<tr>
<th>LC50 (inhalation)</th>
<th>LD50 (oral)</th>
<th>LD50 (dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0 ≤ 5.0 mg/L (dust and mist)</td>
<td>&gt;2000 mg/kg</td>
<td>&gt;2000 mg/kg</td>
</tr>
</tbody>
</table>
11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin corrosion/irritation: Causes skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Serious eye damage/irritation: Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Respiratory sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization: May cause an allergic skin reaction.

Symptoms and target organs: Prolonged exposure may cause chronic effects. May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure. May cause respiratory irritation. Difficulty breathing. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin irritation. May cause redness and pain. May cause allergic skin reaction. Dermatitis. Rash. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Chronic health effects: Suspected of causing cancer. May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure.

Carcinogenicity: Suspected of causing cancer.

<table>
<thead>
<tr>
<th>Material</th>
<th>OSHA(O)</th>
<th>ACGIH(G)</th>
<th>NTP(N)</th>
<th>IARC(I)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-diisocyanate and toluene-2,6-diisocyanate</td>
<td>CA</td>
<td>A4</td>
<td>R</td>
<td>2B (as a gas only)</td>
</tr>
</tbody>
</table>

**SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:**
- **OSHA (O)** = Occupational Safety and Health Administration
  - Yes = Expected to be carcinogenic
  - not listed = Not expected to be carcinogenic
- **NTP (N)** = National Toxicology Program
  - 1 = Known to be a carcinogen
  - 2 = Reasonably anticipated to be a carcinogen
  - not listed = Not expected to be carcinogenic
- **ACGIH (G)** = American Conference of Governmental Industrial Hygienists
  - A1 = Confirmed human carcinogen
  - A2 = Suspected human carcinogen
  - A3 = Animal carcinogen
  - A4 = Not classifiable as a human carcinogen
  - not listed = Not expected to be carcinogenic
- **IARC (I)** = International Agency for Research on Cancer
  - 1 = Carcinogenic to humans
  - 2A = Probably carcinogenic to humans
  - 2B = Possibly carcinogenic to humans
  - 3 = Not classifiable as to its carcinogenicity to humans
  - 4 = Probably not carcinogenic to humans
  - not listed = Not expected to be carcinogenic

**Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Reproductive Toxicity:** This product is not expected to cause reproductive or developmental effects.

**Specific Target Organ Toxicity (STOT):**
- **Single Exposure:** May cause respiratory irritation.
- **Repeated Exposure:** May cause damage to organs (lungs) through prolonged or repeated (inhalation) exposure.

**Aspiration Toxicity:** Based on available data, this product is not expected to cause aspiration toxicity.

**Other Information:** Not available.

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**SECTION 12: ECOLOGICAL INFORMATION**

12.1 ECOTOXICITY

**Acute/Chronic toxicity:** Harmful to aquatic life with long lasting effects.

**Aquatic toxicity:** Harmful to aquatic life with long lasting effects.

**Environmental effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

12.2 PERSISTENCE AND DEGRADABILITY

**Persistence/biodegradability:** The product contains substances which are not expected to be readily biodegradable.
### 12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Does not bioaccumulate

### 12.4 MOBILITY

<table>
<thead>
<tr>
<th>Mobility</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility</td>
<td>No data available.</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>No data available.</td>
</tr>
<tr>
<td>Mobility in non-soil</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

### 12.5 OTHER ADVERSE EFFECTS

| Ozone layer       | No data available.                |

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

<table>
<thead>
<tr>
<th>Disposal method</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>This material</td>
<td>must be disposed of in accordance with all local, state,</td>
</tr>
<tr>
<td></td>
<td>provincial, and federal regulations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contaminated packaging</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Since emptied</td>
<td>containers may retain product residue, follow label</td>
</tr>
<tr>
<td></td>
<td>warnings even after container is emptied. Dispose of contents</td>
</tr>
<tr>
<td></td>
<td>and container in accordance with all local, regional, national</td>
</tr>
<tr>
<td></td>
<td>and international regulations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EU codes</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The Waste code</td>
<td>should be assigned in discussion between the user, the producer</td>
</tr>
<tr>
<td></td>
<td>and the waste disposal company.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Residual waste</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose of in</td>
<td>accordance with local regulations. Empty containers or</td>
</tr>
<tr>
<td></td>
<td>liners may retain some product residues. This material and its</td>
</tr>
<tr>
<td></td>
<td>container must be disposed of in a safe manner (see: Disposal</td>
</tr>
<tr>
<td></td>
<td>instructions).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disposal instructions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Collect and reclaim</td>
<td>or dispose in sealed containers at licensed waste disposal site.</td>
</tr>
<tr>
<td></td>
<td>Dispose of contents and container in accordance with all local,</td>
</tr>
<tr>
<td></td>
<td>regional, national and international regulations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Waste codes</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The Waste code</td>
<td>should be assigned in discussion between the user, the producer</td>
</tr>
<tr>
<td></td>
<td>and the waste disposal company.</td>
</tr>
</tbody>
</table>

| Other disposal         | None                                                             |
| recommendations        |                                                                 |

### SECTION 14: TRANSPORT INFORMATION

#### DOT Non-Bulk

Not classified as Dangerous Goods for Transport

#### DOT Bulk

Not classified as Dangerous Goods for Transport

#### IMDG

Not classified as Dangerous Goods for Transport

#### ICAO/IATA

Not classified as Dangerous Goods for Transport

**Reportable quantity:** Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

4,4’-Diphenylmethane Diisocyanate (TDI) RQ: 5,040 kg (11,111 lbs)

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.
SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

US Federal Regulations:

U.S. OSHA (Occupational Safety and Health Administration) Specifically Regulated Substances (29 CFR 1910.1001-1050)

The following components of this product are found at concentrations greater than or equal to 0.1% and are listed as U.S. OSHA Specifically Regulated Substances.

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate</td>
<td>26471-62-5</td>
<td>30-60%</td>
</tr>
</tbody>
</table>

SARA/CERCLA reporting requirements:

The following components of this product are found at concentrations greater than or equal to 0.1% and are subject to SARA/CERCLA reporting requirements.

<table>
<thead>
<tr>
<th>Material</th>
<th>SARA 302 (EHSs) TPQ</th>
<th>SARA 304 EHSs RQ</th>
<th>CERCLA RQ</th>
<th>SARA 313 listed</th>
<th>RCRA CODE</th>
<th>CAA 112(r) TQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate</td>
<td>Not listed</td>
<td>Not listed</td>
<td>100</td>
<td>X</td>
<td>U223</td>
<td>10,000</td>
</tr>
</tbody>
</table>

State Right-to-Know Regulations

The following components of this product are found at concentrations greater than or equal to 0.1%, subject to state Right-to-Know reporting requirements; or are found at any concentration and are listed under California Proposition 65.

<table>
<thead>
<tr>
<th>Material</th>
<th>California Proposition 65</th>
<th>Massachus etts Right-to-Know</th>
<th>Minnesota Employee Right-to-Know</th>
<th>New Jersey Community Environmental Hazard Right-to-Know</th>
<th>New Jersey Right-to-Know Substance</th>
<th>Pennsylvanian Right-to-Know</th>
<th>Rhode Island Right-to-Know</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene-diisocyanate, mixture of toluene-2,4-di-isocyanate and toluene-2,6-di-isocyanate</td>
<td>Cancer</td>
<td>Listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Global Inventories:

<table>
<thead>
<tr>
<th>Notification status:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>US - TSCA</td>
<td>All substances are listed</td>
</tr>
<tr>
<td>Canada - DSL</td>
<td>All substances are listed</td>
</tr>
<tr>
<td>Canada - NDSL</td>
<td>No substances are listed</td>
</tr>
<tr>
<td>EU - EINECS</td>
<td>All substances are listed</td>
</tr>
<tr>
<td>EU - ELINCS</td>
<td>No substances are listed</td>
</tr>
<tr>
<td>EU - NLP</td>
<td>No substances are listed</td>
</tr>
<tr>
<td>Australia – AICS</td>
<td>All substances are listed</td>
</tr>
<tr>
<td>China - EICSC</td>
<td>All substances are listed</td>
</tr>
<tr>
<td>Japan - ENCS</td>
<td>All substances are listed</td>
</tr>
<tr>
<td>Korea - KECI</td>
<td>All substances are listed</td>
</tr>
<tr>
<td>Taiwan - NECI</td>
<td>All substances are listed</td>
</tr>
</tbody>
</table>
EU - REACH Status:
A registration number is not available for substances in this mixture as the substances are exempted from registration, the annual tonnage does not require a registration or the registration is envisioned for a later registration deadline.

CANADA – WHMIS (Workplace Hazardous Materials Information System) Classification:
D1A, D2A, D2B

MEXICO:
Hazard Classification: 2-1-1
Carcinogen Status: Carcinogen

SECTION 16: OTHER INFORMATION

HMIS (Hazardous Materials Identification System) rating:

<table>
<thead>
<tr>
<th>Health</th>
<th>2*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Physical</td>
<td>1</td>
</tr>
</tbody>
</table>

NFPA 704 (National Fire Protection Association) rating:

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Legend:
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Dangerous Goods
- ACGIH: American Conference of Governmental Industrial Hygienists
- NTP: National Toxicology Program
- IARC: International Agency for Research on Cancer
- PPE: Personal Protective Equipment
- RCRA: Resource Conservation and Recovery Act
- CAA: Clean Air Act
- SARA: Superfund Amendments and Reauthorization Act
- EPCRA: Emergency Planning and Community Right-to-Know Act
- WHMIS: Workplace Hazardous Materials Information System
- EU: European Union
- REACH: Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
- CERCLA: Comprehensive Environmental Response, Compensation and Liability Act
- TSCA: US Toxic Substances Control Act (TSCA)
- DSL: Canada Domestic Substance List (DSL)
SAFETY DATA SHEET

Trade Name: LM60B - GacoFlex® LM60 - Part B

Date of preparation: January 5, 2016
Version: 1.1
Revision Date: January 5, 2016
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Prepared by: Gaco Western LLC

End of Safety Data Sheet