



# MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT :: ELASTO-MAT D&G (SELF-LEVELING)

MSDS DATE:3/22/2012

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ELASTO-MAT D & G [SELF LEVELING]  
SYNONYMS: ELASTO-MAT D & G HORIZONTAL GRADE (solvent free)  
PRODUCT CODES: EMAT DG - SL

MANUFACTURER: ER SYSTEMS (An ITW Company)  
ADDRESS: 12271 MONARCH STREET, GARDEN GROVE, CA 92841  
INFORMATION PHONE: 714-898-0025  
FAX NUMBER: 714-898-5687

EMERGENCY Contact during transport:  
INFOTRAC 1-800-535-5053  
CUSTOMER ID: 74919

CHEMICAL FAMILY: POLYURETHANE

PRODUCT USE: WATERPROOFING MEMBRANE  
PREPARED BY: ER SYSTEMS (An ITW Company)

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS / CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	LD50/LC50	WT %
AROMATIC POLYURETHANE POLYMER # MIXTURE	No data available	No data available	No data available	No data available	35 – 50 %
AROMATIC HYDROCARBON # 64742-94-5	No data	No data	No data	No data	20 – 35 %
*RESIDUAL TRACE AMOUNT OF TOLUENE DIISOCYANATE # 26471-62-5	0.005ppm	0.005ppm	0.02 ppm	LD50: >2g/kg (rat, dermal) LD50: 5.8g/kg (oral, rat) LC50: 10ppm/4hrs (mouse)	< 0.2%
CARBON BLACK #1333-86-4	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	No data	LD50(oral, rat): > 8000 mg/kg	< 5 %

SECTION 2 NOTES: \* Indicates chemical subject to reporting requirements as per SARASection 313 of title III and of 40 CFR 372. All chemicals comprising this product are listed on the TSCA inventory (Toxic Substance Control Act Inventory).

## SECTION 3: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Use proper ventilation. Wear protective equipment and clothing. Do not inhale vapor and mist. Do not ingest. Avoid skin and eye contact. Keep away from children, animals and expectant mothers.

**ROUTES OF ENTRY:**Eye, Skin, Inhalation, Ingestion

**POTENTIAL HEALTH EFFECTS :**

### ACUTE HEALTH HAZARDS:

**EYES:** Vapor and/or mist may cause eye irritation. May cause redness, tearing and itching.

**SKIN:** Skin contact may cause irritation, itching and redness.



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**INGESTION:** May cause irritation of the mouth, pharynx, esophagus and stomach. May cause gastrointestinal irritation, nausea and vomiting.

**INHALATION:** May cause weakness, fatigue and dizziness. Vapor and/or mist may cause irritation to nose and throat. May cause respiratory tract irritation. May cause coughing and tightness in chest with difficulty in breathing..

**CHRONIC HEALTH HAZARDS:** Prolonged and Repeated contact may cause asthma like conditions, allergic skin reaction (rash, hive-like, acme, itching) and respiratory and skin sensitization. This can be avoided with using proper personnel protective equipment. Repeated overexposure to vapors and/or material may injure the liver, kidneys and respiratory system unless suitable engineering controls and/or personal protective equipment and clothing are used.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**Pre-existing eye, skin, liver, kidney and respiratory disorders may be aggravated by exposure.

### CARCINOGENICITY

OSHA: N.E. ACGIH: N.E. NTP: N.E. IARC: N.E.

**SECTION 3 NOTES:** Product is based on fully reacted Toluene Diisocyanate(TDI)+ Polypropylene based polymer and Aromatic hydrocarbon. Trace amount of TDI (<0.2%) may be present in the product. TDI is a material that may reasonably be anticipated to be a carcinogen based on a NTP technical report on rats This product also contain carbon black pigment similar to one categorized by International Agency for Research on cancer (IARC) as causing cancer in MICE after prolonged and repeated contact. Any potential hazard can be minimized by use of personnel protective equipment, clothing and hygienic method.

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### SECTION 4: FIRST AID MEASURES

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**EYES:** Immediately flush with plenty of water for at least 15 minutes. Keep eyelids open. Consult a physician immediately.

**SKIN:** Remove contaminated clothing .Wash material off with plenty of soap and water. If redness, itching or burning develops, consult a physician. Wash contaminated clothing before reuse.

**INGESTION:** Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately. If conscious, drink plenty of water. If person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove victim from exposure to fresh air. If difficulty with breathing, administer oxygen or artificial respiration. A trained personnel should be available at the site to help proper care. Seek medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** N/A

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### SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABLE LIMITS IN AIR, UPPER:** not available  
(% BY VOLUME) **LOWER:** not available

**FLASH POINT:** > 200 °F ; ( 93.33°C) **METHOD USED:** COC (PENSKY MARTEN CLOSED CUP)

**AUTOIGNITION TEMPERATURE:** not available

### HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 1  
PROTECTION: gloves, respirator, eye goggles, clothing (coverall/apron)

**EXTINGUISHING MEDIA:** In case of fire, use Dry chemical foam, carbon dioxide, halogenated agents. If water is used, use very large quantities. The reaction between water and hot isocyanate may be vigorous.

**SPECIAL FIRE FIGHTING PROCEDURES:** At higher temperature pressure build up in sealed containers. Use water to cool containers exposed to fire. Wear self-contained breathing apparatus with full face piece and protective clothing.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure buildup may result in rupturing of the container. If containers are exposed to high temperature, vapors in the closed container can result to pressure build up that could cause rupture and fire hazard. Empty containers retains product residue (liquid/vapor) which can be dangerous. Do not pressurize, cut, weld braze, solder, drill, grind or expose to heat, flame, sparks, static electricity or other ignition sources.



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**HAZARDOUS DECOMPOSITION PRODUCTS:** In case of fire, combustion products such as carbon dioxide, carbon monoxide, and nitrogen oxides may evolve. Trace amount of hydrogen cyanide may enter also.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES:** In case of spill, damaged containers, and leak, collect in a container. Eliminate ignition sources. Ventilate the area. Clean-up personnel should wear appropriate equipment and clothing. Clean the uncured material using solvent such as acetone. If material is cured, scrape it off and collect in a waste disposal container. Large spills should be contained and by forming a dike.

SECTION 6 NOTES: Do not close the waste disposal container air-tight. If, material may get contaminated, it can react and cause rupture of the container.

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### SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in a cool and dry, well ventilated and covered location. Wear protective clothing and equipment. Use with adequate ventilation. Do not contaminate with water. Open containers should be used within a day or two since it will start skinning.

**OTHER PRECAUTIONS:** Individuals with existing respiratory disease such as chronic bronchitis, emphysema or asthma like conditions should avoid exposure to polyisocyanates or related products during application and while curing. Do not drink, eat, or smoke while working with the product. Wash before such an activity. KEEP AWAY FROM CHILDREN. Keep away from ignition sources such as fire, flame, sparks etc.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### ENGINEERING CONTROLS:

**VENTILATION :** General and local ventilation, if needed.

**RESPIRATORY PROTECTION:** Wear MSHA/NIOSH approved organic vapor or charcoal filtered cartridge respirator or positive pressure supplied air respirator with full face piece or an air-supplied hood.

**EYE PROTECTION:** Chemical tight goggles, full face shield in addition if splashing is possible.

**SKIN PROTECTION:** Nitrile, neoprene or butyl rubber gloves.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Tyvek, neoprene, butyl, and nitrile rubber based clothing have excellent resistance to aromatic solvents and Polyisocyanate based products. Provide eyewash station and safety showers in the work area. Provide emergency safety plans if regulations require. Give proper training of the usage and application of the products.

**WORK HYGIENIC PRACTICES:** Do not drink eat or smoke while working. Wash before doing so.

**EXPOSURE GUIDELINES:** see section 2.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Black color mixture, semi-viscous, self-leveling consistency.

**ODOR:** mild aromatic odor

**PHYSICAL STATE:** Fluid

**BOILING POINT:** no data

**MELTING POINT:** not applicable

**FREEZING POINT:** Not Applicable

**VAPOR PRESSURE (mmHg):** not available

**VAPOR DENSITY (AIR = 1):** Greater than air

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.15 – 1.17

**SOLUBILITY IN WATER:** insoluble in water. Will react slowly with water.

**PERCENT SOLIDS BY WEIGHT:** >98% (solvent free product)

**VOLATILE ORGANIC COMPOUNDS (VOC):** does not contain Volatile Organic Compound

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### SECTION 10: STABILITY AND REACTIVITY



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STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): Avoid water contact, alcohol, amines, acids and alkalis. Avoid high temperature.

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid Oxidizing Agents.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen,,

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

CONDITIONS TO AVOID (POLYMERIZATION): Avoid high temperatures. Avoid moisture contact. Will react with moisture. Reaction with moisture and/or at high temperature may cause pressure build-up in a closed container that could result to rupture of the container.

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### SECTION 11: TOXICOLOGICAL INFORMATION

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#### TOXICOLOGICAL INFORMATION:

Toluene Diisocyanate (Mixer Isomer) CAS ## 26471-62-5

LD50: >2g/kg (rat, dermal);

LD50: 5.8g/kg (oral, rat);

LC50: 10ppm/4hrs (mouse)

### SECTION 12: ECOLOGICAL INFORMATION

No data available

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### SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** Use excess product in an alternate beneficial application. If not usable, then product is subject to hazardous waste treatment, storage, and disposal requirements under RCRA. Recycle or incinerate waste at EPA approved facility or dispose of in accordance with local, federal and state regulations.

### SECTION 14: TRANSPORT INFORMATION

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U.S. DEPARTMENT OF TRANSPORTATION : NOT REGULATED

WATER TRANSPORTATION: NOT REGULATED

AIR TRANSPORTATION : NOT REGULATED

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### SECTION 15: REGULATORY INFORMATION

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#### U.S. FEDERAL REGULATIONS

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All components used in this products are listed in Toxic Substance Control Act (TSCA).

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):**

Toluene Diisocyanate (Mixed Isomer) CAS # 26471-62-5 RQ (100lbs)

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**

**311/312 HAZARD CATEGORIES:** Acute Health Hazard, Chronic Health Hazard

**313 REPORTABLE INGREDIENTS:** Toluene Diisocyanate (mixed Isomer) CAS # 26471-62-5

**STATE REGULATIONS:** California Proposition 65: This product contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm.

Toluene Diisocyanate CAS # 26471-62-5

**INTERNATIONAL REGULATIONS: WHMIS Rating (Canada):** Class B, Division 3, Class D, Division 2, Subdivision B.

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### SECTION 16: OTHER INFORMATION

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OTHER INFORMATION:

**PREPARATION INFORMATION: July 24, 2009**

### **DISCLAIMER:**

*A MSDS such as this cannot be expected to cover all possible individual situations. The end user of this product has the responsibility to provide a safe workplace. All aspects of an individual operation should be examined to determine if, or where, precautions – in addition to those described herein – are required. Any health and safety information contained herein should be passed on to your customers and/or employees.*

*The opinions expressed herein are those of qualified experts within ER SYSTEMS. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and the use of this product are not within the control of ER SYSTEMS,, final determination of suitability of this product is the sole responsibility of the user. It is the responsibility of the user to comply with all applicable Federal, State and Local laws and regulations.*