



## MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT:: ELASTO-GLAZE 6001 AL (VOC)

MSDS DATE: 03/12/2012

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ELASTO-GLAZE 6001AL (VOC)  
SYNONYMS: Aliphatic Topcoat Sealer  
PRODUCT CODES: EG6001AL-VOC  
  
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: WATER PROOF / PARKING DECK  
PREPARED BY: ER SYSTEMS

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>HAZARDOUS COMPONENTS</u>	<u>CAS #</u>	<u>PEL</u>	<u>OSHA</u>	<u>STEL</u>	<u>ACGIH (TLV)</u>	<u>WT%</u>
Polyurethane Polymer (reacted)	mixture	0.005ppm		0.02ppm	0.005ppm	60 - 75
Isophorone Diisocyanate	4098-71-9	0.005ppm		0.02ppm	0.005ppm	< 0.3%
Aromatic Petroleum Naphtha	64742-95-6	100ppm		150ppm	100ppm/TWA	< 10%
4-Chlorobenzotriflouride	98-56-6	no data		no data	no data	< 20 %
Pigment mixture	mixture	no data		no data	no data	< 15 %

#### SECTION 2 NOTES:

The product is made using a polymerized polyurethane resins (polyol + Isocyanate). The reacted polymer may contain residual monomer of Isophorone Diisocyanate less than 0.3%. 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 Children, animals and expectant mothers away.

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.

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



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MSDS DATE: 03/12/2012

**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, CNS depression (central nervous depression), sensitization, 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: NE ACGIH: NE NTP: NE IARC: NE

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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:

**SECTION 4 NOTES:** Any potential hazard Can be minimized by use of personnel protective equipment, clothing and hygienic method.

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### SECTION 5: FIRE-FIGHTING MEASURES

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

FLASH POINT: 130<sup>o</sup>F (54.44<sup>o</sup>C) Pensky Martens Closed Cup method

AUTOIGNITION TEMPERATURE: no data

#### NFPA HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 1  
OTHER: PPE: (gloves, coveralls/apron, respirator, safety goggles)

#### HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 2 REACTIVITY: 1  
PROTECTION: gloves, coveralls/apron, respirator, safety goggles

**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.



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**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.

**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

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**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

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**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. Operators must check the drums before filling them with the solution. Do not use the drums if they are contaminated 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 not be exposed to isocyanates or related products during application and curing time. 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

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#### 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



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APPEARANCE: Pigmented liquid mixture

ODOR: mild aromatic solvent odor

PHYSICAL STATE: fluid

pH AS SUPPLIED: not applicable

pH (Other):

BOILING POINT: no data

MELTING POINT: not applicable

FREEZING POINT: not applicable (freezing the product will make difficult to handle. Store product above 50F)

VAPOR PRESSURE (mmHg): no data

VAPOR DENSITY (AIR = 1): greater than air

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.18 – 1.19

EVAPORATION RATE: less than one

SOLUBILITY IN WATER: not soluble (will react slowly in presence of water)

PERCENT SOLIDS BY WEIGHT: 74 +/- 2%

PERCENT VOLATILE: BY WT → 26 +/- 2%/

VOLATILE ORGANIC COMPOUNDS (VOC): 100 GRAMS PER LITER (MINUS EXEMPT SOLVENT)

VISCOSITY: 2500 cps minimum

SECTION 9 NOTES: VOC is calculated minus exempt solvent (4-Chlorobenzotrifluoride)

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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:**



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Isophorone Diisocyanate (CAS #4098.71-9); LD 50: >7000 mg/kg(rat, dermal), LD 50: 4814 mg/kg (oral, rat), LC50: 0.04mg/l/4h (rat)  
Aromatic Petroleum Naphtha (CAS #64742-95-6), LD: 4.7g/kg (rat, dermal), LC: >3370 ppm/8hrs (rat)  
4-chlorobenzotrifluoride (CAS# 98-56-6), LD50 (oral)(rat) >6.8g/kg, LD50 (dermal) (rabbit) >2.7 g/kg, LC50 (inhalation)(rat) 4479ppm

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### SECTION 12: ECOLOGICAL INFORMATION

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**ECOLOGICAL INFORMATION:** no data

### 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.

**RCRA HAZARD CLASS:** D001

### SECTION 14: TRANSPORT INFORMATION

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U.S. DEPARTMENT OF TRANSPORTATION: Not Regulated

#### WATER TRANSPORTATION

PROPER SHIPPING NAME: Paint  
HAZARD CLASS: 3  
ID NUMBER: UN1263  
PACKING GROUP: III  
LABEL STATEMENTS: Flammable Liquid

#### AIR TRANSPORTATION

PROPER SHIPPING NAME: Paint  
HAZARD CLASS: 3  
ID NUMBER: UN1263  
PACKING GROUP: III  
LABEL STATEMENTS: Flammable Liquid

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### SECTION 15: REGULATORY INFORMATION

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#### U.S. FEDERAL REGULATIONS

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All chemicals comprising this product are listed on the TSCA inventory (Toxic Substance Control Act Inventory).

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

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

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

**313 REPORTABLE INGREDIENTS:** Isophorone Diisocyanate (CAS #4098.71-9), 1,2,4 Trimethylbenzene (CAS# 95-63-6)

**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.



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**SECTION 15 NOTES:** 1,2,4 Trimethylbenzene is a component present in Aromatic Petroleum Naphtha Solvent

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### SECTION 16: OTHER INFORMATION

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**OTHER INFORMATION:**

**PREPARATION INFORMATION:** February 23, 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 Pacific Polymers. 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 Pacific Polymers 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.*