



MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT: ELASTO-THANE 227/227R A-COMPONENT MSDS DATE: 3/14/2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ELASTO-THANE 227/227R [A-COMPONENT]
PRODUCT CODES: ET227/227R-A

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:
PRODUCT USE: JOINT SEALANT
PREPARED BY: ER SYSTEMS

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits</u>	<u>% Wt</u>
Alkyl Phenol	84852-15-3	N.E.	N.E.	recommended no data	<0.5 %
Talc	14807-96-6	20mppcf TWA	2 mg/m3 TWA	no data	< 30%
Organo Mercury Compound catalyst	NJTSR #540041000000-9932P	0.1mg/m3 (8hrs/TWA)	0.1mg/m3 (8hrs/TWA)		< 0.1%

All ingredients are TSCA listed
N.E. – not establish

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Avoid skin and eye contact. Do not inhale or ingest. Keep away from children, pets and pregnant women. Use with adequate ventilation. Prolonged or repeated contact may product some skin irritation. Cancer hazard based on skin painting studies in laboratory animals (aromatic hydrocarbon oil). Wash after handling the product.

ROUTES OF ENTRY: Skin, Ingestion, Eye, Inhalation

POTENTIAL HEALTH EFFECTS

Acute Health Hazard:

EYES: May cause delayed burns and slight irritation. May cause redness and/or burning effect.

SKIN: May be absorbed through the skin. Contact may cause delayed burns and/or slight irritation.

INGESTION: May cause nausea and vomiting on ingestion. May cause irritation to mouth and stomach.

INHALATION: May cause respiratory tract irritation. May cause mild respiratory irritation if exposed to high temperatures

Chronic Health Hazard: May cause on overexposure, fatigue, depression, headache, vomiting.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Skin irritation, Eye Irritation

CARCINOGENICITY: no data.

Note: Product contain mercury compound catalyst in very small quantity that acts as a catalyst for curing. Proper hygienic precaution should be taken to avoid any skin and eye contact and ingestion.



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SECTION 4: FIRST AID MEASURES

Eyes: Immediately wash eyes with running water for at least 15 minutes. If irritation develops, consult a physician.

Skin: Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation persists, consult a physician.

Inhalation: Move to fresh air. Aid in breathing, if necessary. Get medical help if necessary.

Ingestion: If swallowed dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: no data
(% BY VOLUME) LOWER:

FLASH POINT: > 200F (pensky marten closed cup)

AUTOIGNITION TEMPERATURE: no data

HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0
PROTECTION: gloves, goggles/safety glasses, coveralls/apron

EXTINGUISHING MEDIA: Use water fog, foam, carbon dioxide or dry chemical extinguishing media

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: none known

HAZARDOUS DECOMPOSITION PRODUCTS: oxides of carbon (carbon dioxide, carbon monoxide), Oxide of Nitrogen on fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Material is heavy viscous, should not flow if there is small spill. In case large spill or leak, dike area to prevent from entering waterways such as drains, sewer etc. Non-Sag version will not flow at all. Provide adequate ventilation. Do not expose material to high temperatures. Collect waste in waste container and dispose in accordance to laws and regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a dry and cool location away from high temperature and heat conditions. Do not store next to oxidizers. Wear protective equipment and clothing when working with the product. Wash before eating, drinking and/or if using restroom. Do not smoke while working with the material. Avoid moisture contamination. Use with adequate ventilation to prevent from inhaling any fumes and/or mists, especially at high temperatures.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION : Keep containers closed when not in use. Provide local and/or mechanical exhaust ventilation.

RESPIRATORY PROTECTION: not required on normal use. If required wear MSHS/NIOSH approved respirator suitable for protection from the vapor concentrations encountered.

EYE PROTECTION: Chemical safety goggles/glasses. If splashing is possible, use full face shield.



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SKIN PROTECTION: Wear permeation-resistant gloves and clothing with long sleeves and pants.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eye wash station and emergency showers should be readily available in case contact person requires.

WORK HYGIENIC PRACTICES: Wash before eating, drinking, smoking or using restroom. Use of vegetable oil may be suitable to clean skin contact. Keep creams such hydrocortisone in case needed after any skin contact. Keep product away from pets, children and pregnant women. Launder contaminated clothing before reuse.

EXPOSURE GUIDELINES: see section 2. No data available on complete formulated product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: pigmented base, self-leveling and non-sag consistency.

ODOR: mild odor

PHYSICAL STATE: self leveling and/or non-sag

BOILING POINT: no data

MELTING POINT: not applicable

FREEZING POINT: not applicable (material stored under cold conditions can result into viscosity build-up of the product that does not become user friendly.)

VAPOR PRESSURE (mmHg): no data

VAPOR DENSITY (AIR = 1): greater than one

SPECIFIC GRAVITY (H₂O = 1): 1.25 – 1.28

EVAPORATION RATE: will not evaporate

SOLUBILITY IN WATER: not miscible

VOLATILE ORGANIC COMPOUNDS (VOC): solvent free product

Weight per Gallon: 11.0 to 13.0 lbs

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): avoid high temperatures, high humidity, water

INCOMPATIBILITY (MATERIAL TO AVOID): keep away from water contamination, metals, alcohols

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: oxides of carbon and nitrogen

HAZARDOUS POLYMERIZATION: none known.

CONDITIONS TO AVOID (POLYMERIZATION): none known

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Alkyl Phenol: Oral LD₅₀ (rat) → 1246 – 2462 mg/kg

Dermal LD₅₀ (rabbit) → > 2g/kg

Inhalation → not determined

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: no data available

SECTION 13: DISPOSAL CONSIDERATIONS



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WASTE DISPOSAL METHOD: Dispose waste in accordance to local, state, and federal laws and regulations.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: not regulated

WATER TRANSPORTATION: not regulated

AIR TRANSPORTATION: not regulated

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients used for the product are listed in TSCA inventory.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): mercury compound

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: skin and eye irritant

313 REPORTABLE INGREDIENTS: mercury compound

STATE REGULATIONS:

This product does contain any materials subjected to Proposition 65 (California) regulation. - mercury compound

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: 3/14/2012

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.