



MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT ELASTO-SEAL 200E [B-COMPONENT]

MSDS DATE:3/14/2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ELASTO-SEAL 200E [B-COMPONENT]
SYNONYMS: MODIFIED POLYSULFIDE SEALANT
PRODUCT CODES: ES200E-B

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 transit
INFOTRAC 1-800-535-5053
CUSTOMER ID: 74919

CHEMICAL NAME: POLYSULFIDE
PRODUCT USE: TWO COMPONENT FUEL RESISTANT JOINT SEALANT FOR RUNWAYS, PARKING LOTS ETC.
(MACHINE MIX AND HAND-MIX TYPES)
PREPARED BY: ER SYSTEMS

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS / CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	LD50/LC50	WT %
Butyl Benzyl Phthalate #85-68-7	NA	NA	NA	LD50 (oral, rat) = 20400 mg/kg LD50 (Dermal, Rabbit) = >10000 mg/kg LC50 (inhalation, 4h, rat) = > 6.7 mg/l Eye irritation: slight, rabbit, 24 hrs	25 - 40 %
Coal Tar #8007-45-2	0.2 mg/m3 (TWA)	0.2 mg/m3 (TWA)	NE	NA	<7 %
Manganese Dioxide 1313-13-9	5 mg/m3 (ceiling)	0.2 mg/m3	NA	LD50 (oral, rat):14,900 mg/kg	< 10 %

NA = Not Available
NE = Not Established

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Caution! Product is modified with coal tar that may include polycyclic and aromatic hydrocarbons. Do not inhale fumes. Do not ingest. Avoid skin and eye contact. Keep away from children, pets and pregnant women.

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

POTENTIAL HEALTH EFFECTS

EYES: Vapors and liquid can irritate eyes. Repeated or prolonged exposure may cause eye damage. Hot material can burn eye tissue.

SKIN: Skin contact may cause skin irritation and dermatitis, including acne. Existing skin disorder such as eczema may be aggravated by exposure to the material. Hot material may cause heat burns.

INGESTION: Swallowing may cause gastrointestinal irritation, nausea, vomiting and depression of central nervous system. Material entering lungs may cause vomiting, which could cause lung inflammation and damage.

INHALATION: Mist or vapor may irritate respiratory tract. Prolonged and repeated inhalation may cause respiratory difficulty, convulsions, and cardiovascular difficulty.

CHRONIC HEALTH HAZARDS: Long term exposure with products containing coal tar, if misused, may cause changes in skin pigmentation, and skin disorder. It may damage lungs, kidneys or bladder. Coal tar used for this product contains residual benzene (<0.1%). Benzene overexposure can cause blood disorder. To avoid exposure, one should always wear personal protective equipment and clothing.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Existing skin disorder such as eczema may be aggravated by exposure to the material. Hot material may cause heat burns. Can cause eye damage on repeated and prolonged overexposure.



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CARCINOGENICITY

This product is coal tar modified. Coal tar has been determined by IARC (International Agency for Research on Cancer) to be human carcinogen. Coal tar and several of its specific ingredients, including benzo(a)pyrene, have been determined by NTP (National Toxicology Program) to cause cancer in experimental animals. Benzene is listed to be carcinogen by OSHA, NTP and IARC.

SECTION 4: FIRST AID MEASURES

EYES: Flush eyes with plenty of water for at least 15 minutes. Keep eyelids wide open to get properly irrigate. Consult a physician immediately. If wearing contact lenses, remove them and then flush.

SKIN: If contacted with skin, remove material from skin with vegetable oil and wash thoroughly with soap and water. Remove contaminated clothing and contaminated shoes. Wash clothing properly before. If coveralls are used, discard them. If irritation persists use hydrocortisone cream as a relief. Consult a physician.

INGESTION: Do not give anything by mouth. DO not induce vomiting, pulmonary complications can result. Consult a physician or poison control center at once for suggestions.

INHALATION: Remove person to fresh air. Give artificial respiration if breathing has stopped. Administer oxygen if breathing is difficult. Consult a physician if symptoms persist.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: This product contains coal tar along with a phlatate plasticizer and a polysulfide resin polymer. Coal tar is the most hazardous ingredient. Hence first aid measures may be considered based on coal tar exposure.

SECTION 5: FIRE-FIGHTING MEASURES

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

FLASH POINT: above 200°F (pensky marten closed cup)

AUTOIGNITION TEMPERATURE: not determined

NFPA HAZARD CLASSIFICATION

HEALTH: **FLAMMABILITY:** **REACTIVITY:**

HMIS HAZARD CLASSIFICATION

HEALTH: 2 **FLAMMABILITY:** 1 **REACTIVITY:** 0

PROTECTION: gloves, coverall/apron, shoes, respirator, chemical safety goggles. Glasses

EXTINGUISHING MEDIA: Use class B-extinguisher, e.g. dry chemical, foam, carbon dioxide or water fog in case of fire..

SPECIAL FIRE FIGHTING PROCEDURES: Wear MSHA/NIOSH approved self-contained breathing respirator and full protective gear for working with fires. Cool exposed containers with water spray. Keep personnel removed from upwind of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: none known

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, carbon and possibly sulfur.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wear permeation-resistant, elastomeric boots or overshoes and other protective equipment/clothing. Eliminate all sources of ignition and if indoors, ventilate spill area. Stop source of spill or leak if possible. Contain spillage (diking with sand, earth or other inert absorbent material) from entering sewers or open bodies of water and/or to prevent soil contamination. Collect spilled waste in waste container. Waste could be treated (solidified) with component B. If not dispose according to governmental rules and regulations.



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SECTION 6 NOTES: The product is packaged mostly in 5-gallon units and is viscous. At ambient temperature it should not spread over huge area and hence could be contained from spreading, unless a huge spill with multiple units breaking down where a dike shall be necessary. One shall have to judge if the spill is small or large.

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.

OTHER PRECAUTIONS:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION : Keep containers closed when not in use. Provide local and/or mechanical exhaust ventilation. Stay upwind whenever practical to do so especially outdoor application is being done.

RESPIRATORY PROTECTION: 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.

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: black viscous liquid mixture, medium viscosity

ODOR: tar like odor

PHYSICAL STATE: Fluid

BOILING POINT: above 150F

MELTING POINT: not applicable

FREEZING POINT: no data (material stored under cold conditions can result into viscosity build-up of the product that does not become user friendly.)

VAPOR PRESSURE (mmHg): below 1 mm Hg @20°C

VAPOR DENSITY (AIR = 1): greater than one

SPECIFIC GRAVITY (H₂O = 1): 1.65 – 1.70

EVAPORATION RATE: less than one

SOLUBILITY IN WATER: slight

VOLATILE ORGANIC COMPOUNDS (VOC): solvent free product

Weight per Gallon: 13.9 +/- 0.2 lbs

SECTION 10: STABILITY AND REACTIVITY

STABILITY: stable under normal conditions of storage and handling.

CONDITIONS TO AVOID (STABILITY): Avoid moisture contact and high heat conditions

INCOMPATIBILITY (MATERIAL TO AVOID): avoid strong oxidizers (liquid chlorine, sodium or potassium hypochlorite, nitric acid and peroxides.)



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

HAZARDOUS POLYMERIZATION: non known

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: no data available on the final product. Some listed on individual ingredient in section 2.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: no data available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose waste according to local, state and federal rules and regulations. Consult your waste hauler for proper classification.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME: not regulated

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): all ingredients used for the product are TSCA listed

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: acute and chronic health hazards

313 REPORTABLE INGREDIENTS: polycyclic Aromatic Compound Category (present in coal tar)
Manganese Compound

STATE REGULATIONS:

California Proposition 65: This product contains chemicals known to the State of California to cause cancer.

INTERNATIONAL REGULATIONS:

WHMIS: Class D, Division 2B (Materials causing other toxic effects/toxic material)

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: December 11, 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.