



MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT: DECKTHANE PRIMER (VOC)

MSDS DATE: 3/12/2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DECKTHANE PRIMER (VOC)
PRODUCT CODES: EDP-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 transit:
INFOTRAC 1-800-535-5053

CUSTOMER ID: 74919

CHEMICAL NAME: POLYURETHANE PRIMER

PRODUCT USE: USED FOR PRIMING CONCRETE SUBSTRATE
PREPARED BY: ER SYSTEMS

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS / CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	LD50/LC50	WT %
Polymeric MDI (contains 4,4' Diphenylmethane Diisocyanate) # 9016-87-9	0.20 mg/m ³	0.05mg/m ³ (8-hrs,40 hrs/week)	0.20 mg/m ³	LD50 (rat,oral)→ >5000mg/kg LD50 rabbit dermal → >5000mg/kg LC50 rat respirable aerosol: 2240 mg/m ³ 1hr LC50 rat respirable aerosol: 0.49 mg/m ³ 4hr	60 – 75 %
Aromatic Petroleum Naphtha Solvent # 64742-95-6	100 ppm	100ppm/ TWA	150ppm	LD: 4.7g/kg (rat, dermal) LC: >3370 ppm/8hrs (rat)	<10%
Parachlorobenzo-trifluoride #98-56-6	Not established	Not established	No data	LD (oral): >6.8g/kg (rat) LD (dermal): >2.7g/kg (rabbit) LC (inhalation): (rat) 4479ppm	< 15%

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: Reacts slowly with water to produce carbon dioxide which may rupture closed containers. The reaction accelerates at higher temperatures. Inhalation at levels above the occupational exposure limit could cause respiratory sensitization and may cause irritation to respiratory system. The respiratory symptoms may be delayed for several hours after exposure. 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



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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, scaling, itching or redness. May cause skin sensitization.

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, 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: May cause or aggravate dermatitis and asthma.

CARCINOGENICITY

OSHA: no data ACGIH: no data NTP: no data IARC: No data

SECTION 4: FIRST AID MEASURES

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. An MDI study has demonstrated that a polyglycol-based skin cleaner or corn oil may be more effective than soap and water.

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

SECTION 5: FIRE-FIGHTING MEASURES

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

FLASH POINT: 120°F; (48.8°C) METHOD USED: pesky martens close cup

AUTOIGNITION TEMPERATURE: not available

HMIS HAZARD CLASSIFICATION

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

EXTINGUISHING MEDIA: In case of fire, use Dry chemical foam, carbon dioxide, and dry chemical powder (for small fires). If water is used, use very large quantities. The reaction between water and hot isocyanate can 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.



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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.

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 area with decontamination solution. Allow at least 30 minutes for the decontaminant to react with uncured material. 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.

Decontamination Solution: Mixture of+ 0.2% - 0.5% Liquid Detergent + 3-8% ammonium hydroxide (or 5 -10% sodium carbonate) + water (90 – 92%)

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. Ideal storage conditions: 60F – 85F

OTHER PRECAUTIONS: Individuals with existing respiratory disease such as chronic bronchitis, emphysema or asthma like conditions should avoid exposure 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.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: General and local ventilation, if needed.

RESPIRATORY PROTECTION: If the material is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure, air supplied respirator may be required. Air purifying respirators equipped with organic vapor cartridges and a HEPA (P100) particulate filter may be used under certain conditions.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: self-leveling consistency, low viscosity, amber yellow transparent liquid mixture.

ODOR: Mild aromatic Solvent Odor

PHYSICAL STATE: liquid



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pH AS SUPPLIED: No data available
BOILING POINT: F: 300°F to 335°F; (C: 148.8°C to 168.3°C)
MELTING POINT: not applicable
FREEZING POINT: Not Applicable
VAPOR PRESSURE (mmHg): ND (3.0 mm Hg @ 20°C – solvent)
VAPOR DENSITY (AIR = 1): Greater than air (4.5 - solvent)
SPECIFIC GRAVITY (H₂O = 1): 1.13 – 1.16
EVAPORATION RATE: less than one
SOLUBILITY IN WATER: insoluble in water. Will react slowly with water.
PERCENT SOLIDS BY WEIGHT: 68 +/- 2%
PERCENT VOLATILE: weight → 32 +/- 2%
VOLATILE ORGANIC COMPOUNDS (VOC): 100 gram per liter (MINUS EXEMPT SOLVENT)
VOLATILE ORGANIC COMPOUNDS (VOC): 366 gram per liter (as supplied with EXEMPT SOLVENT)
VISCOSITY: 500 cps (maximum) @ 75°F (23.88°C)

SECTION 10: STABILITY AND REACTIVITY

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, and traces of hydrogen cyanide.

HAZARDOUS POLYMERIZATION: May occur at elevated temperature in presence of alkalis, tertiary amines, metal compounds and slowly in presence of water.

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.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Polymeric MDI (contains 4,4' Diphenylmethane Diisocyanate) (cas# 9016-87-9) :

LD50 (rat,oral) → >5000mg/kg
LD50 rabbit dermal → >5000mg/kg
LC50 rat respirable aerosol: 2240 mg/m³ 1hr
LC50 rat respirable aerosol: 0.49 mg/m³ 4hr

Aromatic 100 (CAS # 64742-95-6) :

LD50: 4.7g/kg (rat, dermal)
LC50: >3370 ppm/8hrs (rat)

Parachlorobenzotrifluoride (cas# 98-56-6) :

LD (oral): >6.8g/kg (rat)
LD (dermal): >2.7g/kg (rabbit)
LC (inhalation): (rat) 4479ppm

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

No data available on final product

Data available on MDI

LC50 (Zebra Fish) > 1000 mg/l
EC50 (Daphnia magna) (24 hrs) > 1000 mg/l
EC50 (E. Coli) > 100mg/l



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SECTION 13: DISPOSAL CONSIDERATIONS

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

U.S. DEPARTMENT OF TRANSPORTATION : NOT REGULATED

WATER TRANSPORTATION (IMDG)

PROPER SHIPPING NAME: RESIN SOLUTION
HAZARD CLASS: 3
ID NUMBER: UN1866
PACKING GROUP: III
LABEL STATEMENTS: FLAMMABLE LIQUID

AIR TRANSPORTATION (IATA)

PROPER SHIPPING NAME: RESIN SOLUTION
HAZARD CLASS: 3
ID NUMBER: UN1866
PACKING GROUP: III
LABEL STATEMENTS: FLAMMABLE LIQUID

SECTION 15: REGULATORY INFORMATION

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):

4,4-methylene Diphenyl diisocyanate (cas# 101-68-8) → 5000 lbs RQ (reportable qty)

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: Acute Health Hazard, Chronic Health Hazard
Toxic material, irritating material, sensitizing material

313 REPORTABLE INGREDIENTS:

Diisocyanate Compounds (category Code N120)
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. None known

INTERNATIONAL REGULATIONS:

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

SECTION 15 NOTES: This product contains Aromatic 100 solvent. The solvent contains 1, 2, 4 trimethylbenzene (cas# 95-63-6).

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

Hazardous Material Information System (HMIS): Health: 2

Fire: 2

Reactivity: 1



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PREPARATION INFORMATION: 3/12/12

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.