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GOLDENWEST

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132-

MATERIAL SAFETY DATA SHEET

R1/P1 PRE-MIX (EASY GREEN®) SIDE "A"

EMERGENCY TELEPHONE NUMBER: 800-424-9300

DATE: 11/25/87

NAME: R1/P1 PRE-MIX (EASY GREEN®)

REVISED: 10/95

I. PRODUCT INFORMATION

TRADE NAME AND SYNONYMS: R1/P1 PRE-MIX (EASY GREEN®) Side "A"
CHEMICAL NAME AND SYNONYMS: Polyurethane Isocyanate. CHEMICAL FAMILY: Polymeric Isocyanate.

HEALTH:
FLAMMABILITY:
REACTIVITY:
BIODEGRADABILITY:

II. INGREDIENTS

		%	TLV (ACGIH)
Diphenylmethane-Diisocyanate	(CAS 26447-40-5)	15	0.002 ppm
High Oligomers of MDI	(CAS 9016-87-9)	15	Not Found
Phenyl Isocyanate	(CAS 103-71-9)	Trace	Not Found
High Mmolecular Weight Plasticizer	(CAS 6846-50-0)	20	Not Found
Polyolefin		50	Not Found

III. PHYSICAL DATA

BOILING POINT: 550° F. SOLUBILITY IN WATER: Reacts with water. SPECIFIC GRAVITY: 1.11 VAPOR PRESSURE:
(mmHg @ 73°F.) < 0.0002

IV. FIRE & EXPLOSION DATA

FLASH POINT: Over 300° F. EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, steam, water. UNUSUAL FIRE
HAZARDS: Water contamination will produce carbon dioxide. DO NOT reseal contaminated containers as CO₂ pressure may rupture the
SPECIAL FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus to protect against toxic vapors and combustion products.

V. REACTIVITY DATA

STABILITY: Stable under recommended storage conditions. INCOMPATIBILITY: This product will react with active hydrogens such as
water, alcohol, amines, alkalies. The reaction with water is very slow under 125° F, but is accelerated at a higher temperature and in the
presence of alkalies, tertiary amines, and metal compounds. Some reactions can be violent. HAZARDOUS DECOMPOSITION
PRODUCTS: Carbon dioxide, carbon monoxide, nitrogen oxides, traces of hydrogen cyanide. HAZARDOUS POLYMERIZATION: May
occur in the presence of above catalyzers at high temperatures.

VI. HEALTH HAZARD DATA

INHALATION: This isocyanate, while it has a very low vapor pressure, can induce an asthma-like respiratory reaction in inadequately ventila
areas to persons sensitized to isocyanate. Where used at elevated temperatures or sprayed, the risks of inhalation injury are increased.
SKIN CONTACT: Direct contact will cause temporary irritation to most humans. Dark scale will be formed on skin from combination with
dermal moisture that will slough off in 2 - 3 days. SKIN ABSORPTION: Relative to other materials, a single application is practically
nontoxic by skin absorption. Systemically toxic concentrations are unlikely to be absorbed through human skin. EYES: May cause irritat
or redness. INGESTION: The acute oral LD₅₀ in rats is above 15.0 g/kg. A single dose is practically nontoxic. However, if
swallowed, irritation of the mucous membranes of the mouth and throat will occur. OVEREXPOSURE: Overexposure to isocyanate w
have cumulative effects which can include respiratory and skin sensitization, and eye irritation. Exposure to mists are a greater risk because
higher concentrations of MDI in the atmosphere than are possible with vapors alone. FIRST AID: INHALATION: Remove to fresh air
Provide artificial respiration if required. Administer oxygen if in respiratory distress. Call a physician. SKIN CONTACT: Wash
thoroughly with soap and water. Wash contaminated clothing. If persistent rash or itch occurs, get medical attention. EYES: Flush with
copious quantities of water for 15 minutes. Have eyes examined and treated by medical personnel. INGESTION: DO NOT induce
vomiting. If conscious, give 2 - 3 glasses of water. Consult medical personnel.

VII. SPILL OR LEAK PROCEDURES

Evacuate and ventilate spill area. Wear full protective equipment. Use respiratory protection. Cover with absorbent material. Place in
UNSEALED waste container. Treat the spill area with a water solution containing about 3% detergent and 5% ammonium hydroxide or sodi
carbonate. Use about 10 times the amount of the spill and let react for 10 minutes. Remaining solids will be inert polyureas. For major
transportation spills, call CHEMTREC (800) 424-9300.

VIII. SPECIAL PROTECTION

TLV is 0.02 ppm. Limits do not apply to previously sensitized persons. NOTE: Sensitized persons should be removed from further exposu
Because of low vapor pressure, ventilation is usually able to keep vapors below the TLV at room temperatures. Use a NIOSH approved pos
pressure supplied air respirator: 1. In emergencies. 2. If material is heated. 3. If dusts are generated. PROTECTIVE CLOTHIN
Prevent skin contact with impervious gloves, arm covers, apron. EYE PROTECTION: Chemical workers goggles or face shield.
OTHER PROTECTIVE EQUIPMENT: Eye bath, safety shower near work area.



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MATERIAL SAFETY DATA SHEET

R1/P1 PRE-MIX (EASY GREEN®) SIDE "B"

EMERGENCY TELEPHONE NUMBER: 800-424-9300 DATE: 11/25/87 NAME: R1/P1 PRE-MIX (EASY GREEN®)

I. **PRODUCT INFORMATION**
TRADE NAME AND SYNONYMS: R1/P1 PRE-MIX (EASY GREEN®) Side "B"
CHEMICAL NAME AND SYNONYMS: Polyurethane Polyol CHEMICAL FAMILY: Polyether Polyols.
HEALTH: 2
FLAMMABILITY: 0
REACTIVITY:
BIODEGRADABILITY:

II. **INGREDIENTS**

	%	
Polyether Polyols	22	Pigment: 2%
High Molecular Weight Plasticizer	26	
Polyolefin (CAS 6846-50-0)	50	

III. **PHYSICAL DATA**
BOILING POINT: 550° F. SOLUBILITY IN WATER: CA 40% SPECIFIC GRAVITY: .98

IV. **FIRE & EXPLOSION DATA**
FLASH POINT: Over 300° EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, steam, water. UNUSUAL FIRE
HAZARDS: Combustible liquid PRECAUTIONS: Keep away from heat & flames. Keep containers closed when not in use.

V. **REACTIVITY DATA**
STABILITY: Stable INCOMPATIBILITY: Strong oxidizers. HAZARDOUS POLYMERIZATION: Will not occur.

VI. **HEALTH HAZARD DATA**
When this product is used with its associated isocyanate (Side "A"), ensure that there is adequate ventilation. CHRONIC EXPOSURE: No effects known. SKIN CONTACT: No specific health or safety hazards are known. FIRST AID: Remove contaminated clothing. Wash with soap and water. EYES: No specific hazard known. FIRST AID: Wash with copious amounts of water. INGESTION: Harmful if swallowed and/or aspirated into lungs. DO NOT induce vomiting. Get immediate medical attention.

VII. **SPILL OR LEAK PROCEDURES**
Cover with inert absorbent material. Remove to disposal container. Flush area with water. Know laws regarding waste disposal in your locale.

VIII. **SPECIAL PROTECTION INFORMATION**
RESPIRATORY PROTECTION: DO NOT use this product (and it's associated isocyanate, Side "A") in an unventilated area.
PROTECTIVE CLOTHING: Prevent skin contact with impervious gloves, arm covers and aprons. OTHER PROTECTIVE EQUIPMENT: Eye bath and safety shower near work area.

IX. **OTHER COMMENTS:**
Protect product quality by avoiding atmospheric moisture. While this product is innocuous, carefully review the MSDS of the associated isocyanate, Side "A"

NOT PART OF THE MSDS:
Reference to Section VII. **SPILL OR LEAK PROCEDURES:** Another method widely used to dispose of spilled resin is to measure the amount the spilled resin and mix with the proper amount of the other side (A or B) in a bucket. Let the material harden into a solid block for easy, safer disposal as a solid. NOTE: if the resin has picked up water or a lot of moisture during the spill, the water will react when the resins "A" and "B" are mixed together as a "blowing" agent. In other words, the material will expand in volume depending on how much moisture has been added.

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