**Material Safety Data Sheet (Component A)**

Enviropeeel USA  
1128 S. West St  
Indianapolis, IN 46225  

Chemtrec emergency phone  
Product data information  
Fax  

Date: 10/12

**Product Identification**

Chemical family: Polyurethane  
Product name: Rubber-Loc 100 Component A  
Formula: Reaction product of a Polyether with toluene diisocyanate (TDI).

**Composition Information / Ingredients**

<table>
<thead>
<tr>
<th>Ingredient Name / CAS Number</th>
<th>Exposure Limits</th>
<th>Concentration</th>
</tr>
</thead>
</table>
| Synthetic Polyurethane Prepolymer  
CAS # 59675-67-1  
TDI  
CAS number 584-84-9 | TWA Not determined  
STEL not determined  
.005 ppm, TWA 0.02 ppm, STEL  
(OSHA, ACGIH) | 99%  
Less than  
1% |

Hazard assessment based on available data.  
Transportation: n/a  
OSHA (1910.1200) – irritant, sensitizer, Carcinogen (NTP, IARC, 2b  
EEC* - irritant, sensitizer, irreversible effects

**Physical data**

Appearance and odor: viscous transparent liquid; slight aromatic odor  
Solubility: reacts slowly in water, soluble in THF, DMF, or methylene chloride  
Melting point: not determined  
Boiling point: Greater than 350 F  
Specific gravity (H2O=1): 1.1095  
Vapor Pressure @ 20°C: not determined  
Vapor density (air=1): not determined  
Volatility @ 70°F: nil

**Fire and explosion hazard data**

Flash point: >400°F (204°C) CC  
Extinguishing media: water spray, dry chemical  
Autoignition temperature: not determined  
Flammable limits: not determined  
Special fire fighting procedures: protect against inhalation of cyanate vapors and other decomposition/combustion products.  
Unusual hazards: none identified.

**Reactivity data**

Stability: stable at ambient temperatures and pressures.  
Incompatibility: avoid contamination with water, solvents and any foreign matter.  
Decomposition products: high temperatures will release cyanates and hydrocarbons. Oxides of carbon, nitrogen and small amount of HCN under burning conditions.

**Special protection information**

Engineering controls: None required  
Personal protection equipment: chemical resistant gloves and goggles should be worn.

**Storage, spills and disposal information**

Storage: store away from sources of direct heat and moisture. Seal containers with a dry nitrogen blanket and keep closed when not in use. Moisture contamination will evolve CO2 and create pressure in closed systems.  
Spills: absorb on inert carrier. Transfer to open containers outside or in well-ventilated area. Soak with dilute ammonia hydroxide of water alcohol mixture. Allow time for reaction to be complete before disposal.  
Reportable quantity: 100 lbs. (TDI pure)  
Disposal: in accordance with any applicable local, state or federal regulation regarding polymeric waste.  
Environmental information: environmental effects have not been determined.

**Health related data**

Specific hazard(s): contact with eyes and skin may cause irritation. Repeated, minimal contact with skin may cause sensitization. At room temperatures inhalation is not normally considered a hazard unless the product is heated about 300 F in liquid form  
Primary route(s) of entry: skin absorption  
First aid procedures:
Eye contact: flush with water for 15 minutes. Get medical attention.
Skin contact: wipe excess. Wash with rubbing alcohol, if available, followed by soap and water. Discard shoes if contaminated.
Toxicology information: there are no acute toxicology data on this material; however, residual TDI (0.02 – 4.0%) does possess irritancy and sensitization potential.

Component A

Chronic: oral gavage administration of TDI in corn oil to rats and mice for 2 years resulted in an increased incidence of tumors. Six hour daily inhalation exposures to rats and mice of 0.05 and 0.15 ppm TDI for 2 years did not produce tumors. Since inhalation is the usual route of human exposure, the carcinogenic potential of TDI to humans has not been established.

### SARA Title III (40CFR 372) – Section 313 Toxic Chemicals Notification

<table>
<thead>
<tr>
<th>Toxic Chemical</th>
<th>CAS Number</th>
<th>% (by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4-toluene disocyanate</td>
<td>584-84-9</td>
<td>0.75</td>
</tr>
<tr>
<td>2,6-toluene disocyanate</td>
<td>91-08-7</td>
<td>0.25</td>
</tr>
</tbody>
</table>

Carcinogenic per
- NTP: X
- IARC: 2b
- OSHA: None
- (TDI)

### Material Safety Data Sheet (Component B)

#### Product Identification

Chemical family: Hydroxy Terminated Poly (Oxyalkylene) Polyl mixture.
Product name: Rubber-Loc 100 Component B.
Formula: The specific chemical formula for this material is a trade secret of Industrial Polymers, Inc.
Chemical name: Blend of amine & polyls.
Synonyms: Polyether Triol.
C.A.S. number: 9082-00-2.

#### Composition Information / Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name / CAS Number</th>
<th>Exposure Limits</th>
<th>Concentration</th>
</tr>
</thead>
</table>
| Polyol 
CAS number 9082-00-2      | OSHA: not established   | 80-90%        |
|                              | ACGIH: not established  |               |
| Aromatic Diamine             | OSHA: not established   | 5-10%         |
|                              | ACGIH: not established  |               |

#### Hazardous Material Identification

**Warning!** Do not take internally.
Routes of absorption: Skin.
Inhalation: At room temperatures inhalation is not normally consider a hazard unless the product is heated about 300 F in liquid form.
Odor threshold: there is no data for odor threshold.
Irritation threshold: there is no data for irritation threshold.
Immediate danger to life or health: the IDLH concentration has not been established for this product.
Medical conditions aggravated by exposure: there are no medical conditions known to be aggravated by exposure.
Interactions with other chemicals, which enhance toxicity: there is no chemical known to enhance the toxicity of the product.

#### Emergency and first aid procedure

Inhalation: Not a route of entry at room temperature unless the product is heated above 300 F in liquid form.
Skin: May be a slight a skin irritant with repeated exposure. Washing any substance off the skin with water is a good safety practice.
Eyes: Slight eye irritant, flush with water.
Ingestion: immediately drink water to dilute. Seek medical attention if symptoms develop.

#### Fire and explosion hazard data

Flammable: no.
Combustible: no.
Pyrophoric: no.
Flash point: 300-500° F (150-260° C) test method: Cleveland Open Cup.
Auto ignition temperature: no data.
Flammable limits at normal atmospheric temperature and pressure (percent volume in air) LEL: no data, UEL: no data.
Extinguishing media: carbon dioxide, dry chemical and water spray.
Fire fighting procedures: use water to cool containers exposed to fire, use normal fire fighting equipment. Additional respiratory protection is necessary when a spill or fire involving this product occurs. You are recommended to use a cartridge type NIOSH/OSHA approved respirator with dust/mist cartridges. Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hardhat, splash-proof goggles, impervious clothing (chemically impermeable suit).
Accidental release measures

For all transportation accidents, call Chemtrec. Reportable quantity: N/A (per 40 CFR 300.4). Spill mitigation procedures: stop source of spill as soon as possible and notify appropriate personnel. Air release: N/A. Water release: this material is slightly soluble in water and may be subject to emulsification. Divert flow of water and contain that which is contaminated. Remove as a liquid utilizing a vacuum or pumping system as possible. Land spill: dike spill area and begin to remove as a liquid. If unable to do so, then absorb in clay, sand or a commercial absorbent and containerize for disposal. Compatible absorbents sand, clay soil. Spill residues: (see Disposal considerations)

Special precautions and storage data

Do not take internally: avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Storage conditions: do not store at temperatures above 100° F. Other: product is hygroscopic; protect with padding of dry nitrogen.

Component B

Shelf life: 6 months (closed container).
Incompatible materials for packaging: use glass or vinyl lined containers. Recommend lined steel (Amercoat number 23 vinyl coating 5-coat system); 304SS.
Incompatible materials for storage or transport: strong oxidizers.

Personal protection

Eye protection: safety glasses with side shields.
Skin protection: Latex gloves
Ventilation: no special ventilation is required unless the product is heated above 300 f in Liquid form
Respirator: not required at room temperatures.

Physical properties

Appearance: Thin black liquid
Freezing point: no data.
Boiling point: no data.
Decomposition temperature: no data.
Specific gravity: 0.99.
Bulk density: N/A.
\( \text{pH} @ 25^\circ C \): neutral 10/6 isopropanol/water.
Vapor pressure @ 25° C: 0.01-3.5 mm Hg.
Solubility in water: soluble to slightly soluble.
Volatiles, percent by volume: 0.
Evaporation rate: N/A.
Vapor density: no data.
Molecular weight: N/A – mixture.
Odor: slightly musty to odorless.
Coefficient of oil/water distribution: no data.

Stability and reactivity

Conditions under which this product may be unstable:
Temperatures above: no data.
Mechanical shock or impact: no.
Electrical (static) discharge: no.
Other: no.
Hazardous polymerization: will not occur.
Incompatible materials: strong oxidizers.
Hazardous decomposition products: carbon monoxide, carbon dioxide and other fragments, which have not been identified.
Summary of reactivity:
Oxidizer: no.
Pyrophoric: no.
Organic peroxide: no.
Water reactive: no.

Toxicological information

Acute toxicity:
Inhalation LC50: greater than a nominal concentration of 200 mg/l for 1-hour (rat).
Dermal LD50: >g/kg (rabbit).
Oral LD50: >5g/kg (rat).
Irritation: not a skin and eye irritant.
Chronic target organ toxicity: there are no known or reported effects from repeated exposure.
Reproductive and developmental toxicity: there are no known or reported effects on reproductive function pre-fetal development.
Carcinogenicity: this product is not known or reported to be carcinogenic by any reference source including LARC, OSHA, NTP, or EPA.
Mutagenicity: this product is not known or reported to be mutagenic.
Ecological information

Aquatic toxicity: none known or reported.

Disposal considerations

Waste disposal method: waste must be disposed of in accordance with local, state and federal environmental control regulations. Incineration is the preferred method. If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and non-hazardous wastes.

Shipping information


Regulatory information


Other information

NFPA ratings: not established. HMIS ratings: Health 1, Flammability 1, Reactivity 0.

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Prepared by:
Approval date: 10/12
Supersedes none