SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS PREPARED BY: Environmental Health Dept.-Grace Construction Products
W.R.Grace & Co.-Conn. Grace Canada, Inc.
62 Whittemore Ave. 294 Clements Rd. West
Cambridge, MA 02140 Ajax, Ontario, L1S 3C6
Telephone Number for Information and Emergency Response
In USA: (617) 876-1400 In Canada: (905) 683-8561

MSDS Number: M-85726 000001 Cancels MSDS M-85686 Date: 02/24/2004

Trade Names and Synonyms: PREPRUFE® WATERPROOFING MEMBRANES,
(SEE SECTION 16 FOR ADDITIONAL
PRODUCT IDENTIFICATION)
PREPRUFE® TAPES

Chemical Names and Family: Polyolefin Sheet with Synthetic Adhesive
Product Use: Waterproofing
Formula: Mixture-NA
CAS# (Chemical Abstract Service): MIXTURE-NA

SECTION 2 - HAZARDOUS INGREDIENT AND MAJOR COMPONENT INFORMATION
(See Section 11 for Complete Chemical Names)

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>Max. %</th>
<th>By Wt.</th>
<th>OSHA</th>
<th>Exposure Limits</th>
<th>ACGIH</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROCARBON OIL</td>
<td>15.00</td>
<td></td>
<td>PEL:</td>
<td>5 mg/m³*</td>
<td></td>
<td>None Established</td>
</tr>
<tr>
<td>CAS# 64742-52-5</td>
<td></td>
<td>5 mg/m³*</td>
<td>TLV:</td>
<td></td>
<td></td>
<td>10 mg/m³*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STEL:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

EXPOSURE GUIDELINES - CANADA

Employers should check with provincial regulatory agencies for exposure guidelines, which may vary locally.
SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:

Warning Statements:

CAUTION! MAY CAUSE SLIGHT IRRITATION.

... Synthetic adhesive CAS# Unknown, Polyolefin sheet CAS# 9002-88-4 and Polyester film CAS# Unknown.
... Release liners are slippery. Remove from work area immediately after membrane application.
... Read and understand all Health and Safety information on the product Label and Material Safety Data Sheet before use.

NPCA-HMIS Hazard Index:

- Health: 1
- Flammability: 1
- Reactivity: 0
- Personal Protection: A

(See Section 8)

Potential Health Effects

Routes of Exposure:

Inhalation:
There are no known effects due to inhalation of this product.

Skin and Eye:
There are no known health effects due to skin contact.

There are no known effects due to eye contact.

Ingestion:
There are no known health effects due to ingestion. Due to the physical nature of this product, ingestion is unlikely. Wash hands completely before eating.

Carcinogenicity Information:
None

SECTION 4 - FIRST AID MEASURES

SKIN: In case of skin contact promptly cleanse the area with waterless hand cleaner, thoroughly clean fingernails and follow by washing with soap and water.

EYE: If eye irritation develops, flush eyes with plenty of water. Consult a physician if eye or skin irritation develops or if swallowed.
SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Determined
Method Used: 
Flammable Limits: LEL N/A  UEL N/A
N.F.P.A. Rating: Not Applicable

Extinguishing Media
Water fog, alcohol foam, dry chemical or Carbon dioxide.

Special Fire Fighting Procedures
Firefighters should be equipped with Self-contained Breathing Apparatus (SCBA) to prevent inhalation of hazardous decomposition products. (See Section 10.)

Unusual Fire and Explosion Hazards
Water should be applied as a spray from a fogging nozzle. Polyolefin sheet and synthetic adhesives are surface burning materials. Application of high velocity water may spread the burning surface layers.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Observe all precautions noted above. Remove material for disposal.

SECTION 7 - HANDLING AND STORAGE INFORMATION

Precautionary Measures:
... Minimize contact with skin.
... Wash hands with soap and water after handling.
... Avoid rubbing eyes while handling.
... Release liners are slippery. Remove from work area immediately after membrane application.
... FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation:
Local Exhaust: Not Required For Normal Use
Mechanical: Not Required For Normal Use
Special: Not Applicable
Other: Not Applicable

Respiratory Protection:
Not required during normal use.

Skin Protection:
Not Required For Normal Use

Eye Protection:
Not Required For Normal Use
SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont’d)

Other Protective Clothing or Equipment:
Not Applicable

Work/Hygienic Practices:
Avoid rubbing eyes while handling. Due to the physical nature of this product, ingestion is unlikely. Use good personal hygiene practices. Wash thoroughly after handling.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Specific Gravity (H2O=1)</td>
<td>~1.0</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>% Volatiles</td>
<td>None</td>
</tr>
<tr>
<td>Vapor Density (AIR = 1)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Negligible</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Bulk Density (#/cu. ft)</td>
<td>~65</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>White or black polyolefin sheet with clear and white synthetic adhesives, no odor.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

SECTION 10 - STABILITY AND REACTIVITY

Stable under normal conditions (yes or no): YES

Conditions or Materials to avoid (which may react or cause instability):
Polylefin sheet may burn or react violently with fluorine/oxygen mixtures containing 50-100% fluorine. Polyolefin may be decomposed by strong oxidizing agents such as nityric and sulfuric acids, halogens, and chlorinating agents.

Hazardous Decomposition or Byproducts:
Carbon monoxide, low molecular weight hydrocarbons, Carbon dioxide, Water, Acrolein, Formaldehyde, and other organic vapors.

Hazardous Polymerization:
Not Applicable

Conditions to Avoid:
Not Applicable
SECTION 11 - TOXICOLOGICAL INFORMATION

INGREDIENT (Chemical Name, CAS#, & Common Name) TOXICITY DATA: LD50 & LC50 (See Section 2 for Exposure Limits)

Hydrocarbon Oil CAS# 64742-52-5 No Data Available

SECTION 12 - ECOLOGICAL INFORMATION

None Available at This Time

SECTION 13 - DISPOSAL CONSIDERATIONS

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. Dispose of waste in accordance with all applicable regulations.

SECTION 14 - TRANSPORT INFORMATION

Transportation Hazard Classification

PROPER SHIPPING: Nonhazardous
NAME
HAZARD CLASS: Nonhazardous
IDENTIFICATION #: Not Applicable
LABEL(s) REQUIRED: Not Applicable
Surface Freight Classification: N.O.I.B.N.

SECTION 15 - REGULATORY INFORMATION

(Not Meant To Be All Inclusive Selected Regulations Represented)

SARA TITLE III REPORTING INFORMATION

Tier I & II HAZARD CATEGORIES: NOT APPLICABLE

Contains Extremely Hazardous-SARA III Section 302 Ingredient: NO
Comments:

Contains Toxic Chemical Release-SARA III Section 313 Ingredient: NO
Comments:
SECTION 15 – REGULATORY INFORMATION (Cont’d)  
(Not Meant To Be All Inclusive  
Selected Regulations Represented)

Other Government Reporting Requirements:

CHEMICAL INVENTORY CERTIFICATION:

For U.S. Products ONLY
All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory.

For Canadian Products ONLY
All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL).

WHMIS CLASS:  Not WHMIS Regulated

Nonhazardous Ingredient Disclosure:
Synthetic adhesive CAS# Unknown, Polyolefin sheet CAS# 9002-88-4, Polyester film CAS# Unknown

SECTION 16 – OTHER INFORMATION
The information contained in this Material Safety Data Sheet is applicable to the following products:

PREPRUFE® 160 WATERPROOFING MEMBRANE  PREPRUFE® CJ TAPE LT
PREPRUFE® 160R WATERPROOFING MEMBRANE  PREPRUFE® CJ TAPE HC
PREPRUFE® 200 WATERPROOFING MEMBRANE  PREPRUFE® TAPE
PREPRUFE® 300 WATERPROOFING MEMBRANE  PREPRUFE® TAPE LT
PREPRUFE® 300R WATERPROOFING MEMBRANE  PREPRUFE® TAPE HC
BITUSTIK® TAPE
Preprufe® Flex

"THE DATA INCLUDED HEREIN ARE PRESENTED IN ACCORDANCE WITH VARIOUS ENVIRONMENT, HEALTH AND SAFETY REGULATIONS. IT IS THE RESPONSIBILITY OF A RECIPIENT OF THIS DATA TO REMAIN CURRENTLY INFORMED ON CHEMICAL HAZARD INFORMATION, TO DESIGN AND UPDATE ITS OWN PROGRAM AND TO COMPLY WITH ALL NATIONAL, FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS APPLICABLE TO SAFETY, OCCUPATIONAL HEALTH, RIGHT-TO-KNOW AND ENVIRONMENTAL PROTECTION."