** MATERIAL SAFETY DATA SHEET **

FRANKLIN INTERNATIONAL
2020 BRUCK STREET
COLUMBUS, OH 43207

Information Phone #: (800)-347-4583

Latest Revision Date...04/22/93
Print Date..............04/22/93
EMERGENCY PHONE NUMBER: 1-614-445-1411

SECTION 1

PRODUCT IDENTIFICATION

PRODUCT NAME...................... 411 INDOOR-OUTDOOR CARPET ADHESIVE
CHEMICAL FAMILY...................... Latex and resin polymer dispersed in water with inert reinforcing material.
MFG. CODE.......................... 2409
SALES CODE(S)...................... 5565, 5566, 5567
DIVISION........................... Construction Adhesives & Sealants

SECTION 2

HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME(S)</th>
<th>CAS NUMBER</th>
<th>WT</th>
<th>OSHA TWA</th>
<th>OSHA Ceiling</th>
<th>OSHA STEL</th>
<th>ACGIH TLV</th>
<th>ACGIH STEL</th>
<th>SEC. 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLLOIDAL silica</td>
<td>108-88-3</td>
<td>2.6</td>
<td>100 ppm</td>
<td>300 ppm</td>
<td>500 ppm</td>
<td>100 ppm</td>
<td>150 ppm</td>
<td>Yes</td>
</tr>
<tr>
<td>NAPHTHA</td>
<td>8031-32-9</td>
<td>26.6</td>
<td>50 ppm</td>
<td>50 ppm</td>
<td>10 ppm</td>
<td>10 ppm</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>FIBREGLASS</td>
<td>187-21-1</td>
<td>10</td>
<td>10 ppm</td>
<td>NA</td>
<td>10 ppm</td>
<td>NA</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>PHOSPHORUS</td>
<td>134-94-8</td>
<td>10</td>
<td>10 ppm</td>
<td>NA</td>
<td>NA</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>AMMONIUM</td>
<td>1894-50-0</td>
<td>10</td>
<td>10 ppm</td>
<td>NA</td>
<td>NA</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>ETHYLENE GLYCOL</td>
<td>107-21-1</td>
<td>1</td>
<td>10 ppm</td>
<td>NA</td>
<td>10 ppm</td>
<td>NA</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>CRYSTALLINE SILICA</td>
<td>14800-60-7</td>
<td>12.6</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>.1 mg/m3</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 3

PHYSICAL DATA (TYPICAL)

BOILING POINT...................... ca 212°F
VISCOSITY (cps.).................. 40,000
VAPOR DENSITY (Air = 1)........... >1
SOLUBILITY IN WATER............. Miscible
SPECIFIC GRAVITY (H2O = 1)....... 1.2
PERCENT VOLATILE (Wt.%)......... 40.3
EVAPORATION RATE (WATER = 1).... <1
pH................................ 10
APPEARANCE....................... White, light bodied mastic
ODOR............................. Mild odor

SECTION 4

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Test Method)...... 127°F (Setaflash)
FLAMMABILITY LIMITS............... NA
EXTINGUISHING MEDIA............... Dry chemical, CO2, water fog
SPECIAL FIRE FIGHTING PROCEDURES Wear MSHA/NIOSH approved self contained breathing apparatus (schedule 13)
UNUSUAL FIRE & EXPLOSION HAZARDS None known.

SECTION 5

HEALTH HAZARD DATA

ROUTES OF ENTRY.................. INGESTION: Yes
INHALATION: Yes
SKIN: No
SECTION 5

POSSIBLE EFFECTS OF EXPOSURE...
SKIN CONTACT................. Will not be absorbed through skin. In rare cases may cause irritation.

EYE CONTACT................ Irritation

INHALATION.................. Dizziness, staggering gait, light headedness, headache, confusion, nausea; anesthetic effects; overexposure could cause unconsciousness and death.

INGESTION................... Gastrointestinal irritation

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE........... Heart, lung and kidney conditions may be aggravated by inhalation.

CARCINOGENICITY............. IARC Monographs: No
NTP: No
OSHA Regulated: No
ACGIH: No

NOTE......................... Not applicable

REPRODUCTIVE TOXICITY....... This product contains toluene, which is listed under the California Safe Drinking Water & Toxic Enforcement Act of 1986 (Proposition 65) as "a chemical known to the State of California to cause birth defects or other reproductive harm."

WARNING..................... Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

SECTION 6

EMERGENCY AND FIRST AID PROCEDURES

*CONSULT PHYSICIAN IN ALL CASES*

SKIN.......................... Wash with soap & water. Apply moisturizing lotion.

EYES........................... Rinse with running water for fifteen minutes.

INGESTION.................... Do not induce vomiting.

INHALATION................... Remove patient from vapor area. Administer oxygen if breathing is labored. Apply artificial respiration if breathing has stopped.

SECTION 7

REACTIVITY DATA

PRODUCT STABILITY............ Stable

Conditions to Avoid........... Temperature below 0°F

CHEMICAL INCOMPATIBILITY.... Strong acids and strong bases

HAZARDOUS DECOMPOSITION PRODUCTS Oxides of carbon when burned

HAZARDOUS POLYMERIZATION.... Will not occur

Conditions to Avoid........... NA
SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION........ Wear suitable NIOSH/MSHA approved respirator where exposure limits are exceeded.

VENTILATION - Local Exhaust..... At point where product is dried. Standard plant ventilation otherwise.
- Mechanical (Gen)..... Yes
- Special........ No
- Other........ No

PROTECTIVE GLOVES............. Where repeated and prolonged contact can occur, the use of impervious gloves is recommended.

EYE PROTECTION.................. Splashproof safety eye protection

OTHER PROTECTIVE EQUIPMENT..... As indicated for specific application from data above for precaution toward fire and vapor inhalation overexposure.

SECTION 9 SPILL OR LEAK PROCEDURES

SPILL OR LEAK PROCEDURES........ Clean up with suitable absorbent and place in an approved container. If product has dried, scrape up and place in approved container.

WASTE DISPOSAL METHOD.......... Disposal of product should comply with all applicable federal, state and local regulations.

CONTAINER DISPOSAL.............. Disposal of container should comply with all applicable federal, state and local regulations.

SECTION 10 SPECIAL PRECAUTIONS

SPECIAL HANDLING............... Do not store below 0°F. Store large quantities in buildings designed and protected for storage of NFPA Class 1-B flammable materials.

KEEP FROM FREEZING.............. Yes. Product is freeze/thaw stable for five cycles.

KEEP OUT OF REACH OF CHILDREN... Yes

SECTION 11 REGULATORY INFORMATION

NEW JERSEY....................... Amorphous silica 68055-54-9
Water 7732-18-5
Petroleum oil 64742-18-3
Hydrocarbon resin 68132-00-3
C-9 hydrocarbon resin 68240-01-7

CALIFORNIA PROPOSITION 65........ The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product may contain the following chemicals, "known to the State to
cause cancer": cadmium (.00001333%), crystalline silica (26.24%); and the following chemical "known to the State to cause reproductive toxicity": toluene (2.6%).

CALIFORNIA RULE 1168........... Calculated VOC (less water) = 106 g/l

HMIS RATING.....................
Health 2
Flammability 2
Reactivity 0
Protective Equipment See Section 8

SECTION 12 SUPPLIER INFORMATION

Notice: While the information and recommendations set forth herein are believed to be accurate as of the data hereof, Franklin International makes no warranty express or implied, with respect thereto and disclaims all liability from reliance thereon.