MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT/MANUFACTURER'S IDENTIFY

PRODUCT NAME: BROWN-EX TANNIN
PRODUCT I.D. NUMBER (PIN): N.A.
WHMIS CLASS: D2B
DOT HAZARD CLASS: Non-Hazardous
PRODUCT NUMBER: N.A.
DOT SHIPPING NAME: N.A.
COMPANY: CASTEX INDUSTRIES, INC.
12875 RANSOM
HOLLAND MI 49424
EMERGENCY PHONE: 800-843-6174
800-535-5053
(Medical: Call Local Poison Control Center)

Abbreviation Key: N.A. = Not Applicable, N.E. = Not Established, N.D. = Not Determined

Hazardous Chemical Identity

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>%</th>
<th>Pel</th>
<th>TLV</th>
<th>LD50</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>60-100</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.D.</td>
<td>N.D.</td>
</tr>
<tr>
<td>Hydroxylated Acid</td>
<td>79-14-1</td>
<td>5-10</td>
<td>N.E.</td>
<td>N.E.</td>
<td>1.95g/kg</td>
<td>7.7mg/l 4hr</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>1.5</td>
<td>400ppm</td>
<td>400ppm</td>
<td>5.9g/kg</td>
<td>N.D.</td>
</tr>
<tr>
<td>Nonionic Surfactant</td>
<td>N.A.</td>
<td>1-5</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.D.</td>
<td>N.D.</td>
</tr>
</tbody>
</table>

This mixture does not contain components which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR, Part 372.

SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION

SECTION 3 - PHYSICAL DATA

Color and Odor: Colorless - Bland
Boiling Point: 212°F 100°C
Freezing Point: 32°F 0°C
Odor Threshold: N.E.

Water/Oil Distribution: N.E.

Vapor Pressure (mm HG): <30
Vapor Density (Air=1): <1
Evaporation Rate (Water=1): N.E.

pH: 1.5 - 2.0 (1% pH 2.8)
Specific Gravity: 1.02
Solubility in Water: Complete

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: N.A.
Autoignition Temperature: N.A.
LEL: N.A. UEL: N.A.

Extinquishing Media: Use media proper to the primary cause of fire.
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None

SECTION 5 - REACTIVITY DATA

Chemical Stability: Yes _X_ No __

Incompatibility (Materials to Avoid): Strong oxidizers or bases.

Hazardous Decomposition of By-Products: None known
Hazardous Polymerization: May Occur __ Will Not Occur _X_

SECTION 6 - TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion
Sensitization: Yes _X_ No __

Carcinogenicity: None
Teratogenicity: None
Mutagenicity: None
Reproductive Toxicity: None

Toxicologically Synergistic Products: None known
Medical Conditions Aggravated by Exposure: None known

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: None normally required with adequate room ventilation.
Protective Gloves: Rubber for prolonged exposure.
Protective Clothing and Equipment: As needed to prevent wetting of clothing.
Storage Requirements: Store in cool, dry area. Follow good housekeeping practices.

Ventilation: Local Exhaust: Acceptable Mechanical: Recommended
Eye Protection: Safety glasses if splashing is likely.
Work and Hygienic Practices: Wash thoroughly after use.
Other Requirements: Keep out of the reach of children.

Steps To Be Taken If Material Is Spilled Or Released: Collect and reuse if possible. Flush to sewer with large quantities of water if permitted by regulatory authorities or absorb on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow runoff into public waterways.
Waste Disposal: Dispose of as permitted by all federal, provincial, state and local regulatory authorities.

SECTION 8 - EMERGENCY FIRST AID PROCEDURES

FIRST AID - NOTES TO PHYSICIAN:

Eyes: Flush with a large amount of water for 15 minutes holding eyelids open.
Skin: Wash with mild soap and water.
Ingestion: Give 2-3 large glasses of water. Do not induce vomiting. Seek medical attention.
Inhalation: Remove to fresh air and rest. In all cases if symptoms persist seek medical attention.

SECTION 9 - PREPARATION INFORMATION

Prepared By: Regulatory Affairs Department
Phone: 615-786-2330
Date of Preparation: January, 1998