

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT/MANUFACTURER'S IDENTITY

APR 03 2002

PRODUCT NAME: BROWN-EX TANNIN  
 PRODUCT NUMBER: N.A.  
 PRODUCT USE: Tannin stain remover

PRODUCT I.D. NUMBER (PIN): N.A.  
 WHMIS CLASS: D2B  
 DOT HAZARD CLASS:  
 Non-Hazardous

COMPANY:  
 CASTEX INDUSTRIES, INC.  
 12875 RANSOM  
 HOLLAND MI 49424

DOT SHIPPING NAME:  
 N.A.

EMERGENCY PHONE: 800-843-6174  
 800-535-5053  
 (Medical: Call Local Poison Control Center)

### H.M.I.S.

|   |                             |  |
|---|-----------------------------|--|
| 1 | HEALTH                      | <b>HAZARD RATING</b><br><br>4 = Extreme<br>3 = High<br>2 = Moderate<br>1 = Slight<br>0 = Insignificant |
| 0 | FIRE                        |  |
| 0 | REACTIVITY                  |  |
| B | MAXIMUM PERSONAL PROTECTION |  |

A = Goggles, B = Goggles & Gloves, C = Goggles, Gloves & Apron

ABBREVIATION KEY: N.A. = Not Applicable, N.E. = Not Established, N.D. = Not Determined

## SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION

| HAZARDOUS CHEMICAL IDENTITY | CAS NO.   | %      | PEL    | TLV    | LD50     | LC50        |
|-----------------------------|-----------|--------|--------|--------|----------|-------------|
| Water                       | 7732-18-5 | 60-100 | N.E.   | N.E.   | N.D.     | N.D.        |
| Hydroxyacetic acid          | 79-14-1   | 5-10   | N.E.   | N.E.   | 1.95g/kg | 7.7mg/l 4hr |
| Isopropanol                 | 67-63-0   | 1-5    | 400ppm | 400ppm | 5.8g/kg  | N.D.        |
| Nonionic surfactant         | N.A.      | 1-5    | N.E.   | N.E.   | N.D.     | N.D.        |

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 3 - PHYSICAL DATA

|                                   |                              |                                  |                               |
|-----------------------------------|------------------------------|----------------------------------|-------------------------------|
| Color and Odor: Colorless - Bland | Boiling Point: 212°F 100°C   | Vapor Pressure (mm HG): <30      | pH: 1.5 - 2.0 (1% pH 2.8)     |
| Physical State: Liquid            | Freezing Point: 32°F 0°C     | Vapor Density (Air=1): <1        | Specific Gravity: 1.02        |
| Odor Threshold: N.E.              | Water/Oil Distribution: N.E. | Evaporation Rate (Water=1): N.E. | Solubility in Water: Complete |

## SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

|                                     |                                |   |
|-------------------------------------|--------------------------------|---|
| Flash Point and Method: N.A.        | Autoignition Temperature: N.A. | Extinguishing Media: Use media proper to the primary cause of fire. |
| Flammable Limits: N.A.              | LEL: N.A. UEL: N.A.            | Special Fire Fighting Procedures: None                              |
| Hazardous Combustion Products: N.A. |                                | Unusual Fire and Explosion Hazards: None                            |

## SECTION 5 - REACTIVITY DATA

|   |   |
|---|---|
| Chemical Stability: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Hazardous Decomposition of By-Products: None known  |
| Incompatibility (Materials to Avoid): Strong oxidizers or bases.                        | Hazardous Polymerization: May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/> |

## SECTION 6 - TOXICOLOGICAL PROPERTIES

|  |  |   |
|--|--|---|
| Routes of Entry: Ingestion   | Toxicologically Synergistic Products: None known | Medical Conditions Aggravated by Exposure: None known |
| Sensitization: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |  |   |
| Carcinogenicity: None  | Teratogenicity: None                             | Mutagenicity: None      Reproductive Toxicity: None   |

### EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):

Eyes: May cause irritation.  
 Skin: May cause irritation.  
 Ingestion: May cause gastrointestinal irritation, nausea, diarrhea.  
 Inhalation: Prolonged exposure in poorly ventilated area may irritate nasal mucous membranes.

## SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

|  |  |
|--|--|
| Respiratory Protection: None normally required with adequate room ventilation.     | Ventilation: Local Exhaust: <u>Acceptable</u> Mechanical: <u>Recommended</u> |
| Protective Gloves: Rubber for prolonged exposure.                                  | Eye Protection: Safety glasses if splashing is likely.                       |
| Protective Clothing and Equipment: As needed to prevent wetting of clothing.       | Work and Hygienic Practices: Wash thoroughly after use.                      |
| Storage Requirements: Store in cool, dry area. Follow good housekeeping practices. | 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