



Carpet Spotting Kit  
**Brown-Ex Tannin**  
**MATERIAL SAFETY DATA SHEET**

Manufactured by:  
**TENNANT**  
 701 North Lilac Drive  
 P.O. Box 1452  
 Minneapolis, MN 55440-1452

**EMERGENCY PHONE NUMBERS:**

CHEMTREC: (800) 424-9300 (24 hrs)  
 CANADA: CANUTEC (613) 996-6666 (24 hrs)

District of Columbia: (202) 483-7616 (24 hrs)  
 MSDS Requests: (800) 553-8033

**PREPARATION INFO:**

By: Kevin Hobbie (763) 540-1471 (days)  
 (612) 834-0118 (mobile)

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

<b>Issue Date:</b> May 4, 2010	<b>HAZARD RATING</b>	<b>NFPA</b>	<b>HMS</b>	<b>NFPA</b>	<b>HMS</b>	4 = Extreme	3 = High	0 = Insignificant
<b>Supersedes:</b> August 21, 2009	Health	3	3	Reactivity	0	2 = Moderate	1 = Slight	COR = Corrosive
<b>Printed:</b> 5/5/2010	Fire	0	0	Special	0			X = Ask supervisor for guidance.

\*\*\*\*\* I. IDENTIFICATION \*\*\*\*\*

**PRODUCT NAME:** Carpet Spotting Kit  
 Brown-Ex Tannin  
**PART NUMBER:** 111002 (kit only)  
**CHEMICAL FAMILY:** Mixture, water, ammonium bifluoride, hydrochloric acid, additives  
**MATERIAL USE:** Commercial Detergent

**US DEPT OF TRANSPORTATION (GROUND):**  
**UN#:** None Allocated **PACKAGING GROUP:** Not Applicable  
**HAZARD CLASSIFICATION:** Not Available  
**SHIPPING NAME:** Not Available

\*\*\*\*\* II. PHYSICAL DATA \*\*\*\*\*

**BOILING POINT:** 210°F / 98.9°C  
**DENSITY:** 1.0 kg/L  
**SOLUBILITY IN WATER:** Complete  
**ODOR THRESHOLD:** Not Available  
**PHYSICAL FORM:** Liquid  
**APPEARANCE AND ODOR:** Clear/Mild  
**EVAPORATION RATE:** Faster THAN N-BUTYL ACETATE  
**MECHANICAL IMPACT:** Not Available

**FREEZE POINT:** Not Available / Not Available  
**% VOLATILE:** 0 by wt  
**VAPOR PRESSURE:** Not Available mm Hg at 20 °C.  
**pH:** <1  
**VAPOR DENSITY:** Heavier THAN AIR  
**COEFFICIENT WATER/OIL DISTRIBUTION:** Not Available  
**VOC g/L (lb/gal):** 0 (0.00)  
**STATIC DISCHARGE:** Not Available

\*\*\*\*\* III. INGREDIENTS \*\*\*\*\*

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Hazardous ingredients, defined as Controlled Products by Canadian WHMIS, are identified by (H2D) after the chemical ingredient. This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all of the information required by the CPR.

<u>CHEMICAL</u>	<u>CAS #</u>	<u>% W</u>	<u>OSHA PEL</u> <u>ppm</u>	<u>ACGIH TLV</u> <u>TWA ppm</u>	<u>ACGIH TLV</u> <u>STEL ppm</u>	<u>LD50</u>	<u>LC50</u> <u>INHALATION</u>
Hydrochloric Acid (H2D)	7647-01-0	1-5	5 (ceiling)	5 (ceiling)	Not Available	900 mg/kg (oral rat)	3124 ppm/1hr (rat)
Ammonium Bifluoride	1341-49-7	1-5	Not Available	Not Available	Not Available	Not Available	Not Available

**SARA Title III Section 313 Information:**

Components present in this product at a level which could require reporting under this statute are:  
 None

**California Proposition 65 Information:**

This product contains the following chemicals that have been designated as cancer and/or reproductive hazards under California Proposition 65.  
 None

\*\*\*\*\* IV. FIRE AND EXPLOSIVE HAZARD DATA \*\*\*\*\*

**FLAMMABLE:** No **FLASH POINT:** None / None Closed Cup  
**FLAMMABLE LIMITS:** % LEL: Not Available % UEL: Not Available **AUTOIGNITION TEMPERATURE** Not Available / Not Available  
**EXTINGUISHING MEDIA:** Will not burn. Use media appropriate for surrounding fire.  
**SPECIAL FIRE FIGHTING PROCEDURES:**

Avoid skin and eye contact, and breathing of acid vapors. Wear head and body protection and acid respirator when handling liquid. Toxic fumes can be produced in fire conditions.

**UNUSUAL FIRE EXPLOSION HAZARD:**

Product is non flammable. Toxic fumes can be produced in fire conditions.

\*\*\*\*\* V. REACTIVITY DATA \*\*\*\*\*

**STABILITY:** Stable **HAZARDOUS POLYMERIZATION (May Occur/Will Not Occur):** Will Not  
**CONDITIONS TO AVOID:** Stable under normal conditions.  
**INCOMPATIBILITY (materials to avoid):** Quartz or silicate materials (e.g. glass), metals, alkalies, acids  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Ammonia and hydrofluoric acid.

\*\*\*\*\* VI. HEALTH HAZARD DATA \*\*\*\*\*

**EFFECTS OF OVEREXPOSURE:** **THRESHOLD LIMIT VALUE - See Section III for individual ingredients.**

**PRIMARY ROUTES OF ENTRY:** Skin, Eyes & Inhalation

**SKIN CONTACT/ABSORPTION:** Corrosive. Ammonium bifluoride causes severe necrosis to tissues (like hydrofluoric acid). The calcium and magnesium ions of the tissues will be captured.

**EYE CONTACT:** Corrosive. Causes eye damage. Wear splash proof goggles or side shield safety glasses. Provide convenient eyewash stations.

**INGESTION (Swallowing):**

Corrosive. Causes burning in mouth and throat.

**INHALATION (Breathing):**

Corrosive! Breathing of vapor can cause respiratory irritation and inflammation.

**SUPPLEMENTAL HEALTH INFORMATION:**

Ingredients are NOT carcinogenic, based on the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) lists.

Note to physician: Treat as per an accident involving hydrofluoric acid.

\*\*\*\*\* VII. EMERGENCY AND FIRST AID PROCEDURES \*\*\*\*\*

**SKIN CONTACT:** Remove immediately all contaminated clothing. Rinse with plenty of water and then bathe with a solution of calcium gluconate or apply a compress. In all cases seek medical advice immediately. With the contaminated clothing, launder before reuse. Discard contaminated shoes.

**EYE CONTACT:** Flush immediately with plenty of water and then with an isotonic solution of calcium gluconate (3.5% of calcium gluconate in an isotonic saline). Seek medical advice immediately.

**INGESTION (Swallowing):** Do not induce vomiting. Immediately give two glasses water or activated charcoal slurry. An alternate is magnesia (one tablespoon in a glass of water), or, preferably, a solution of calcium gluconate. Get medical attention immediately.

**INHALATION (Breathing):** Take immediately to a physician.

\*\*\*\*\* VIII. PREVENTIVE MEASURES \*\*\*\*\*

**SPILL OR LEAK PROCEDURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Neutralize with slaked lime to insoluble calcium fluoride. Dike spill and prevent material from entering sewers, waterways or low areas. Absorb with inert material then place in suitable container. Deposit the spilled material in accordance with local, state or national legislation. When neutralized the product will give off ammonia fumes. Wash spillage area clean.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with federal, state and local regulations.

**SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION and VENTILATION:**

Use with adequate ventilation.

Local exhaust recommended to control employee exposure.

**PROTECTIVE GLOVES (specify type):**

Impervious gloves; i.e., rubber

**EYE PROTECTION (specify type)**

Chemical splash goggles

**SKIN PROTECTION:** Impervious gloves, chemical splash goggles, and protective clothing.

**SPECIAL PRECAUTIONS: PRECAUTIONS TO BE TAKEN IN HANDLING OR STORAGE:**

Store inside in a cool (below 100°F or 37.5°C), dry place. KEEP FROM FREEZING.

**OTHER PRECAUTIONS:** Do not take internally. Avoid prolonged contact with skin; contaminated clothing should be removed immediately. Avoid free fall of liquid in excess of a few inches.