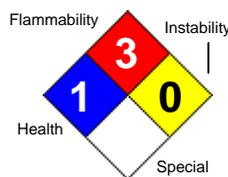


Felt Hat Stiffener



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 Revision: 01/05/2009  
 Supersedes Revision: 02/09/2006  
 Date Created: 08/11/2005

**1. Product and Company Identification**

**Product Code:** 730-1487  
**Product Name:** Felt Hat Stiffener  
**Reference #:** 805-0163  
**Manufacturer Information**  
**Company Name:** Bickmore / Interex  
 240 Metty Drive Suite B  
 Ann Arbor, MI 48103  
**Phone Number:** (734)327-8500  
**Fax Number:** (734)327-8600  
**Emergency Contact:** Chemtrec (800)424-9300

**2. Composition/Information on Ingredients**

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA PEL	ACGIH TLV	Other Limits
1. Ethyl alcohol	64-17-5	85.0 -95.0 %	1000 ppm	1000 ppm	No data.
Hazardous Components (Chemical Name)	RTECS #	OSHA STEL	OSHA CEIL	ACGIH STEL	ACGIH CEIL
1. Ethyl alcohol	KQ6300000	No data.	No data.	No data.	No data.

**3. Hazards Identification**

**Emergency Overview**

Flammable liquid and vapor. Irritating to eyes, skin and respiratory tract. May be harmful if inhaled.

**Route(s) of Entry:** Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes

**Potential Health Effects (Acute and Chronic)**

Potential Health Effects:

Eye: Can cause eye irritation.

Skin: May cause mild skin irritation. Prolonged or repeated contact may dry the skin.

Ingestion: Swallowing this material may be harmful.

Inhalation: Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

Target Organ Effects:

This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, and pancreatitis in humans. The relevance of these finding to ethanol exposure in industrial environments is uncertain. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of these organs in humans: liver, abnormalities, spleen damage, nervous system damage, eye damage, kidney damage, lung damage, brain damage, overexposure to this material (or its components) has been suggested as a cause of the following effects in humans, and may aggravate pre-existing disorders of these organs: liver abnormalities, eye damage.

**Signs and Symptoms Of Exposure**

Eyes: stinging, tearing, redness, and swelling of eyes.

Skin: redness, burning, drying and cracking at skin, and skin burns.

Other Symptoms of Exposure: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material though the skin may include: Stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), visual impairment (including blindness), and death.

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**OSHA Hazard Classes:**

HEALTH HAZARDS : Irritant

PHYSICAL HAZARDS : Flammable Liquid/Sol

TARGET ORGANS &amp; EFFECTS: Kidney, Eyes, Skin, Liver, Central Nervous System, Respiratory System

**4. First Aid Measures****Emergency and First Aid Procedures**

Eyes: If symptoms develop, immediately move individual away from exposure and into fresh air. flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing: Seek medical attention. If individual is drowsy or unconsciousness, do not give anything by mouth, place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation: If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

**Note to Physician**

This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis. Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like condition), liver, kidney, central nervous system, nervous system, spleen, eye.

**5. Fire Fighting Measures**

**Flash Pt:** < 70.00 F (21.1 C) Method Used: Pensky-Marten Closed Cup

**Explosive Limits:** LEL: No data. UEL: No data.

**Fire Fighting Instructions**

Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

**Flammable Properties and Hazards**

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at location distant from material handling point. Never use welding or cutting torch on to rear drum (even empty) because product (even just residue) can ignite explosively.

**Hazardous Combustion Products**

May form: carbon dioxide and carbon monoxide.

**Extinguishing Media**

Alcohol foam, water fog, carbon dioxide, dry chemical.

**Unsuitable Extinguishing Media**

No data available.

**6. Accidental Release Measures**

**Steps To Be Taken In Case Material Is Released Or Spilled**

Small spill:

Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood.

Large Spill:

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from s[reading]. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

**7. Handling and Storage**

**Precautions To Be Taken in Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residue (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and/or bonded when materials transferred.

**Precautions To Be Taken in Storing**

Store away from heat, sparks and open flame.

**8. Exposure Controls/Personal Protection**

**Respiratory Equipment (Specify Type)**

If workplace exposure limit(s) of a product or a component is exceeded (see exposure guide), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

**Eye Protection**

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

**Protective Gloves**

Resistant gloves such as: neoprene, to prevent repeated or prolonged skin contact.

**Other Protective Clothing**

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Engineering Controls (Ventilation etc.)**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Ethyl Alcohol (64-17-5) -- OSHA 1000 ppm TWA, ACGIH 1000 ppm TWA

**9. Physical and Chemical Properties**

<b>Physical States:</b>	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
<b>Melting Point:</b>	0.00 C (32.0 F) - 0.00 F (-17.8 C)		
<b>Boiling Point:</b>	No data. - 0.00 F (-17.8 C)		
<b>Autoignition Pt:</b>	No data.		
<b>Flash Pt:</b>	< 70.00 F (21.1 C) Method Used: Pensky-Marten Closed Cup		
<b>Explosive Limits:</b>	LEL: No data.		UEL: No data.
<b>Specific Gravity (Water = 1):</b>	.8 at 60.0 F (15.6 C)		

**Density:** 6 LB/GA at 60.0 F (15.6 C)  
**Vapor Pressure (vs. Air or mm Hg):** 48.500 MMHG at 68.0 F (20.0 C)  
**Vapor Density (vs. Air = 1):** 1.560  
**Evaporation Rate (vs Butyl Acetate=1):** 2.67  
**Solubility in Water:** No data.  
**Percent Volatile:** 92.5 % by weight.  
**VOC / Volume:** 92.0000 WT%  
**Viscosity:** 1.2 CPS  
**Corrosion Rate:** No data.  
**pH:** NA

**Appearance and Odor**

Clear, colorless homogenous solution with alcohol type odor.

**10. Stability and Reactivity**

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability**

No data available.

**Incompatibility - Materials To Avoid**

Avoid contact with: Strong oxidizers agents.

**Hazardous Decomposition Or Byproducts**

May form: carbon dioxide and carbon monoxide.

**Hazardous Polymerization:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Polymerization**

Product will not undergo hazardous polymerization.

**11. Toxicological Information**

No data available.

**Carcinogenicity/Other Information**

Developmental Information:

This product contains ethanol. Alcoholic beverage consumption has been associated with birth defects in humans.

The relevance of this finding to ethanol exposure in industrial environments is uncertain.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Ethyl alcohol	64-17-5	n.a.	n.a.	A4	n.a.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

**12. Ecological Information**

No data available.

**13. Disposal Considerations**

**Waste Disposal Method**

Dispose of in accordance with all applicable Federal, State, Provincial, and local laws and regulations.

As packaged this material would be considered an EPA hazardous waste due to ignitability.

**14. Transport Information**

**LAND TRANSPORT (US DOT)**

**DOT Proper Shipping Name** Flammable liquids, n.o.s. (ethanol)

**DOT Hazard Class:** 3

**DOT Hazard Label:** FLAMMABLE LIQUID

**UN/NA Number:** UN1993

**Packing Group:** II

**Additional Transport Information**

DOT Hazard determination may be reclassified according to 49 CFR 173.150.

Note: The information provided in Section 14 is based on the rules and regulations governing the shipment of non-bulk containers and may not apply when using bulk packaging to ship this material.

**15. Regulatory Information**

**US EPA SARA Title III**

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Ethyl alcohol	64-17-5	No	No	No	No

**US EPA CAA, CWA, TSCA**

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. Ethyl alcohol	64-17-5	No	No	Inventory	No

**SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:**

- Sec.302:** EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. \* indicates 10000 LB TPQ if not volatile.
- Sec.304:** EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. \*\* indicates statutory RQ.
- Sec.313:** EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
- Sec.110:** EPA SARA 110 Superfund Site Priority Contaminant List

**TSCA (Toxic Substances Control Act) Lists:**

- Inventory:** Chemical Listed in the TSCA Inventory.
- 5A(2):** Chemical Subject to Significant New Rules (SNURS)
- 6A:** Commercial Chemical Control Rules
- 8A:** Toxic Substances Subject To Information Rules on Production
- 8A CAIR:** Comprehensive Assessment Information Rules - (CAIR)
- 8A PAIR:** Preliminary Assessment Information Rules - (PAIR)
- 8C:** Records of Allegations of Significant Adverse Reactions
- 8D:** Health and Safety Data Reporting Rules
- 8D TERM:** Health and Safety Data Reporting Rule Terminations
- 12(b):** Notice of Export

**Other Important Lists:**

- CWA NPDES:** EPA Clean Water Act NPDES Permit Chemical
- CAA HAP:** EPA Clean Air Act Hazardous Air Pollutant
- CAA ODC:** EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)
- CA PROP 65:** California Proposition 65

**International Regulatory Lists:**

**EPA Hazard Categories:**

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

- Yes  No Acute (immediate) Health Hazard
- Yes  No Chronic (delayed) Health Hazard
- Yes  No Fire Hazard
- Yes  No Sudden Release of Pressure Hazard
- Yes  No Reactive Hazard

**Regulatory Information Statement**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety

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procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes all risk in use of the material.

**16. Other Information**

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, EXPRESSED OR IMPLIED, EXCEPT THAT IS ACCURATE TO THE BEST KNOWLEDGE OF INTEREX. THE DATA ON THIS SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN. INTEREX ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS DATA.