



## HESSIAN FROST PROTECTION MATERIAL SPECIFICATION:

**Jute** is a long, soft, shiny vegetable fibre that can be spun into coarse, strong threads. It is produced from plants in the genus *Corchorus capsularis* "Jute" is the name of the plant or fibre that is processed and spun into yarn or woven to produce Hessian cloth.

### 1. PRODUCT

Generic Product: Hessian/Burlap Fabrics & Scrims / Jute Webbing.

Related end use is in building / construction industry used specifically as Frost or Solar Protection on new concrete.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the type of woven jute fabric: Plain weave constructed jute fabric.

Fibre used: 100% (w/w) jute fibre (cellulose 58-63%, Hemicellulose 21-23%, & Lignin 12-14%)

### 3. HAZARDS IDENTIFICATION

Overview: This product is not classified as hazardous. Prolonged exposure to fibres and fibre dust may cause irritation of skin and/or respiratory tract.

Potential health effects:

Eyes: Fibres and dusts may be mechanically irritating when in contact with eyes.

Skin: Prolonged exposure to fibre and dusts may be mechanically irritating to skin.

Inhalation: Excessive exposure to airborne fibres and fibre dusts may cause irritation of respiratory tract.

Ingestion: Not a likely route of entry.

### 4. FIRST AID MEASURES

Eye contact: Flush eyes immediately with water for at least 15 minutes. If eye irritation persists, seek medical attention.  
Skin contact: Wash skin with soap and water. If skin irritation persists, seek medical attention.

Inhalation: Move to fresh air. If symptoms persist, seek medical attention.

Ingestion: If swallowed do not induce vomiting. Consult a physician if necessary.

### 5. FIRE FIGHTING MEASURES

Products are non fire retardant.

Suitable extinguishing media: Water, carbon dioxide (CO<sub>2</sub>), foam and dry chemical.

Unsuitable extinguishing media: None known

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Wear personal protective equipment.

Environmental precautions: No special environmental precautions required.

Methods for cleaning up: Sweep/gather up in manners that avoid creating excessive dust. Arrange for appropriate disposal.

### 7. HANDLING AND STORAGE

Handling: Wear personal protective equipment. Use good housekeeping to keep dust/contamination to a minimum.

Storage: Store in clean, cool, dry conditions, away from direct sunlight.

Keep away from sources of ignition.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

No specific workplace exposure limits.

Adhere to local limits for nuisance dust.

Engineering controls: Ensure adequate ventilation. If necessary, use local exhaust ventilation to minimize exposure to dust.

### 9. P P E:

Eye protection: In circumstances where considered necessary, wear safety glasses with side shields.

Skin protection: In circumstances where considered necessary, wear gloves and suitable protective clothing.

Respiratory protection: In circumstances where considered necessary use approved dust mask.

Environmental exposure controls: No specific environmental precautions required.

Such circumstances may be in high speed in line industrial processes.

### 10. PHYSICAL AND CHEMICAL PROPERTIES

Form/appearance: Solid in the form of fabric

Type of fibre: Biodegradable natural vegetable fibre

Colour: light brown.

Odour: Negligible.

Odour threshold: Not determined

pH of aqueous extract: 6.5

Gravimetric Fineness (Tex): 1.25-4.5

Tenacity (gm/Tex):18-35.

Extension at Break (%):1-2.

MR% at 65%RH: 12

Ignition Temperature (oc):193.

Decomposition Temperature (oc):273

Flammability: Material is combustible

Melting point: N/A (does not melt)

Flash point: Not applicable

Specific gravity: 1.45g/cm<sup>3</sup>

Water solubility: In soluble

VOC (weight %): Not applicable

### 11. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Conditions to avoid: Prolonged exposure to temperatures >193°C.

Substances to avoid: Strong alkalis or acids. Strong oxidizing materials.

Hazardous decomposition products: Under thermal decomposition flammable gases (oxides of carbon) will be generated. Non burnt charred material will be left.

### 12. ECOLOGICAL INFORMATION

Ecologically safe. Completely biodegradable.

### 13. DISPOSAL CONSIDERATIONS

Non-hazardous solid waste. Dispose of in accordance with all applicable regulations. Preferred options for disposal are (i) recycling, (ii) biodegrading /composting, (iii) incineration with energy recovery and (IV) landfill.

### 14. TRANSPORT INFORMATION

Not classified as dangerous goods.

### 15. REGULATORY INFORMATION

Not a hazardous product as defined by national and international regulations/provisions.

### 16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.