**Cellulose Hydro Gel Mask**

**1. Product Identification**

**Synonyms:** Bio-Cellulose, Bacterial cellulose ribbon.

**Molecular Weight:** Not applicable.

**Chemical Formula:** (C6H10O5)n

**2. Composition/Information on Ingredients**

Ingredient Percent Hazardous

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Beta-Glucan 100% Yes

**3. Hazards Identification**

**Potential Acute Health Effects:**

Stock liquid are slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

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Health Rating: 2 - Moderate

Flammability Rating: 2 - Moderate

Reactivity Rating: 0 - None

Contact Rating: 0 - None

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Green (General Storage)

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**Potential Health Effects**

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**Inhalation:**

No adverse health effects expected.

**Ingestion:**

No adverse health effects expected.

**Skin Contact:**

No adverse effects expected.

**Eye Contact:**

No adverse effects expected but dust may cause mechanical irritation.

**Chronic Exposure:**

Not available.

**Aggravation of Pre-existing Conditions:**

Not available.

**4. First Aid Measures**

**Inhalation:**

Remove to fresh air. Get medical attention for any breathing difficulty.

**Ingestion:**

If large amounts were swallowed, give water to drink and get medical advice.

**Skin Contact:**

No adverse effects expected, can wash exposed area with soap and water. Get medical advice if irritation develops.

**Eye Contact:**

if irritation develops when eye contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician if irritation persists.

**5. Fire Fighting Measures**

**Flammability of the Product**: not combustible when stock in presence of open flames.

**Auto-Ignition Temperature**: Not available.

**Flash Points**: Not available.

**Flammable Limits**: Not available.

**Products of Combustion**: Not available.

**Fire Hazards in Presence of Various Substances**:

Dry solids are lightly flammable to flammable in presence of open flames and sparks, of heat, Non-flammable in presence of shocks.

**Explosion Hazards in Presence of Various Substances**:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions**:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards**: Not available.

**6. Accidental Release Measures**

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

**7. Handling and Storage**

Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity. Empty only into non-flammable atmosphere. Emptying contents into a flammable atmosphere where flammable vapors may be present could cause fire. Containers of this material may be hazardous when empty since they retain product residues (dry debris, solids without stock liquid); observe all warnings and precautions listed for the product.

**8. Exposure Controls/Personal Protection**

**Airborne Exposure Limits:**

For Beta-Glucan Mist:- OSHA Permissible Exposure Limit (PEL):

Total Dust: 15 mg/m3 (TWA);

Respirable Fraction: 5 mg/m3(TWA).

- ACGIH Threshold Limit Value (TLV):

10 mg/m3

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH

document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type P95 or R95 filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type P100 or R100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. Please note that N filters are not recommended for this material. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING:Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:**

Wear protective gloves and clean body-covering clothing.

**Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

**Appearance:**

Solid Type Fiber (Cellulose Material)

**Odor:**

Odorless.

**Solubility:**

Not available.

**Bulk Density:**

Not available.

**pH:**

3-4.

**% Volatiles by volume @ 21C (70F):**

Not available.

**Boiling Point:**

Not available.

**Melting Point:**

Not available.

**Vapor Density (Air=1):**

Not available.

**Vapor Pressure (mm Hg):**

Not available.

**Evaporation Rate (BuAc=1):**

Not available.

**10. Stability and Reactivity**

**Stability:**

Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:**

Carbon dioxide and carbon monoxide may form when heated to decomposition.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Strong oxidizing agents.

**Conditions to Avoid:**

Heat, flame, ignition sources, dusting, air, and incompatibles.

**11. Toxicological Information**

Oral rat LD50: > 5,000 mg/kg; inhalation rat LC50: > 5,800 mg/m3/4-hour; skin rabbit LD50: > 2,000 mg/kg.

--------\Cancer Lists\------------------------------------------------------

 ---NTP Carcinogen---

Ingredient Known Anticipated IARC Category

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Beta-Glucan No No None

12. Ecological Information

**Environmental Fate:**

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. This material is not expected to significantly bioaccumulate. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

**Environmental Toxicity:**

This material is not expected to be toxic to aquatic life.

**13. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

**14. Transport Information**

Not regulated.

**15. Regulatory Information**

--------\Chemical Inventory Status - Part 1\---------------------------------

Ingredient EC Japan Australia

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Beta-Glucan Yes Yes Yes

--------\Chemical Inventory Status - Part 2\--------------------------------

 --Canada--

**Australian Hazchem Code:** None allocated.

**Poison Schedule:** None allocated.

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.