Produced/Export by: Thai Hua Rubber Public Company Limited
238/1 Ratchada Pisek Road,
Huy Kwang, Bangkok,
Thailand 10320

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Prepared: QAD Manager
Date: 17 August 2018

Section 1: Product Information
Product: Natural Rubber (Centrifuged Natural Rubber Latex Preserved with Ammonia)
Intended for use: Dipping and Adhesive latex products.

Hazardous Material Information System

<table>
<thead>
<tr>
<th>Health</th>
<th>1</th>
<th>2</th>
<th>0</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal use</td>
<td>Will not burn</td>
<td>Stable</td>
<td></td>
<td>Consult the MSDS and supervisor for special workplace needs</td>
</tr>
<tr>
<td>Slight Hazard (temporary)</td>
<td>Possible to burn</td>
<td>Unstable if heated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health Affected (lengthy)</td>
<td>Burns if heated</td>
<td>Violent Chemical Change</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extreme Danger</td>
<td>Easily Burns</td>
<td>Shock and Heat Sensitive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Severe or Fatal</td>
<td>Very Easily Burns</td>
<td>May Explode</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Chronic (Accumulates)

Note: The HMIS may not be enough hazard information for this chemical in all workplace. The HMIS system requires employee training about the system and the information in this MSDS.

Section 2: Ingredient Information

<table>
<thead>
<tr>
<th>Chemical/Common Name</th>
<th>CAS-Number</th>
<th>%</th>
<th>Hazard Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Rubber (cis 1,4 poly isoprene)</td>
<td>9006-04-6</td>
<td>961-62% @ solid</td>
<td>None noted</td>
</tr>
<tr>
<td>Styrene Butadiene Rubber (1,3-butadiene polymer)</td>
<td>21645-51-2</td>
<td>0-0.1%</td>
<td>None noted</td>
</tr>
<tr>
<td>Stearic Acid</td>
<td>7664-41-7</td>
<td>--</td>
<td>2.3</td>
</tr>
</tbody>
</table>

Section 3: Hazards Identification

Emergency Overview: Centrifuged Natural rubber latex preserved with ammonia.

Potential Acute Health Effects: Ammonia vapors may cause burning eyes, runny nose, coughing and possible chest pain.

Potential Chronic Health Effects: No known carcinogenic, mutagenic, teratogenic effects. Repeated or prolonged exposure is not known to aggravate medical conditions.

Section 4: First Aid Measures

Skin: Wash with warm water and mild soap. Seek medical advice if symptoms persist.

Eye: Irrigate with water, lift lids occasionally. Seek medical aid.

Inhalation: Remove the fresh air. If not breathing, give artificial respiration. Seek medical assistance.

Ingestion: Seek medical assistance; avoid consuming food in working area.

General Advice: Ammonia vapors may cause burning eyes, runny nose, coughing and possible chest pain.

Section 5: Fire Fighting Measures

Flammability: Yes

Flammability Condition: Heat/Oxidation

Extinction Means: Sprinkler Installation/Foam

Flash Point and Method: Unknown

Upper Explosion limit (% by Volume): Unknown

Lower Explosion Limit (% by Volume): Unknown

Auto Ignition Temperature: Unknown

TDG Flammability Classification: Unknown

Hazardous Combustion Product: Carbon Monoxide

Sensitivity to Chemical Impact: Unknown

Rate of Burning: Varies

Explosive Power: Unknown

Sensitivity to Static Discharge: Unknown
Section 6: Accidental Release Measures

**Spill or Leak Precautions:** Wear appropriate protective clothing, gloves and equipment. Collect spilled material by sweeping up solids and disposing of according to local regulations for this type of product. Major spills should be reported to the National Response Center. Spills with potential to contaminate coastal waterways must be reported to the appropriate and relevant governmental offices.

**Waste disposal:** All containers should be effectively labeled to facilitate the appropriate disposal or reclaim.

Section 7: Handling and Storage

**Engineering Controls:** Ventilation during processing. Avoid breathing vapors.

**Leak and Spill Procedure:** N/A

**Waste Disposal:** Bury and burn under controlled conditions/reclaimable

**Handling Procedure and Equipment:** N/A

**Storage Requirement:** Avoid Heat, direct sunlight and contact with oxidative catalysts. Keep container closed

**Special Shipping Information:** None

Section 8: Exposure Control and Personal Protection

**Personal Protective Equipment:**
- **Gloves (specify):** Yes
- **Respiratory (specify):** Yes
- **Eyes (specify):** Yes
- **Footwear (specify):** Yes
- **Clothing (specify):** Yes
- **Other (Specify):** Protective clothing to prevent prolonged exposure to skin

Section 9: Physical and Chemical Properties

**Physical State:** Liquid

**Odour:** Ammonia Odor

**Odour Threshold:** NA

**Appearance:** Milky Liquid

**Vapour Pressure:** 730 mm Hg

**Vapour Density (air=1):** NA

**Evaporation Rate:** NA

**Boiling Point:** 100 C

**Freezing Point:** 0 C

**Solubility in Water (20 C):** NA

**pH:** 10-11

**Density (g/ml):** 0.92

**Water/Oil Distribution:** NA

Section 10: Stability and Reactivity

**Chemical Stability:** Yes

**Incompatibility to other products:** Heavy Metals (eg: Cu) acting as pre-oxidants

**Reactivity and under what conditions:** Starts to decompose above 220 C, finally releasing vapours which may be toxic and flammable near 300 C

**Hazardous Decomposition Product:** Isoprene derivations; carbon monoxide

Section 11: Toxicology Properties of Products

**Route of Entry:** Ingestion

**LD50 of Product (Route):** Unknown

**Irritancy of Product:** Unknown

**Exposure Limit of Product:** Unknown

**LD50 of Product (Species):** Unknown

**Sensitization of Product:** Unknown

**Synergistic Material:** Unknown

Section 12: Ecological Properties of Product

This product is not expected to present an environmental hazard. Ecological or environmental effects unknown.

Section 13: Waste Disposal of Product

Waste must be disposed of in accordance to federal, state and local environmental control regulations.

Section 14: Transport Information of Product

**DOT Classification:** Not a DOT controlled material

**Identification:** Not Applicable

**Special Provision:** Not Applicable
Material Safety Data Sheet

Section 15: Regulatory Information
Product does not contain a SARA S-313 toxic chemicals above DE minimal thresholds
Natural Rubber is NOT considered hazardous under OSHA hazard communication standard 29 CFR 1910.1200 or the WHMIS Canadian Legislation.

Section 16: Other Information
Contact for Product Information  Tel:(662) 274 0471  Fax:(662) 275 6861
Emergency Contact  Tel:(662) 274 0471 ext 57 or 40
Prepared By :  -  Prepared Date: 03 June 2011

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Sources Used
BRMA Toxicity and Safe Handling of Rubber Chemicals; British Rubber Manufacturers Associations
Health and Safety; Malaysian Natural Rubber