SAFETY DATA SHEET

1. Identification

Product identifier: Nycon-PVA (Polyvinyl alcohol fiber)

Other means of identification

SDS number: 2010

Synonym(s): RECS15, RECS100, RF4000, RFS400, RMS702, RSC15

Recommended use: Concrete / Mortar reinforcement fibers

Recommended restrictions: None known

Manufacturer/Importer/Supplier/Distributor information

Nycon Corporation
300 Ben Fairless Drive
Fairless Hills, PA 19030
USA

Emergency telephone: 1-800-456-9266
General Information: Phone: 1-215-310-2139
                     fax: 215-310-2138
E-mail: sales@nycon.com

2. Hazard(s) identification

Physical hazards: Not classified

Health hazards: Not classified

OSHA defined hazards: Combustible dust

Label elements

Hazard symbol: None

Signal word: Warning

Hazard Statement: May form combustible dust concentrations in the air

Prevention: Not assigned

Response: Not assigned

Storage: Not assigned

Disposal: Dispose of or recycle in accordance with local and/or state laws

Hazard(s) not otherwise classified: N/A

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyvinyl Alcohol</td>
<td>CH₂CHOH</td>
<td>9002-89-5</td>
<td>95-99 %</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>CH₃OH</td>
<td>67-56-1</td>
<td>0-1 %</td>
</tr>
</tbody>
</table>

Composition comments: Polyvinyl alcohol is a water-soluble synthetic polymer.

Issue Date: Jan. 04, 2018

Origin Date: 04-Jan-2016

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SDS 2010 (Nycon PVA)
4. First-aid Measures

<table>
<thead>
<tr>
<th>Condition</th>
<th>Symptoms/Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>May cause shortness of breath, tightness of the chest, a sore throat, and cough</td>
</tr>
<tr>
<td>Skin contact</td>
<td>May cause redness and or itching</td>
</tr>
<tr>
<td>Eye contact</td>
<td>May cause itching, burning, redness, and tearing</td>
</tr>
<tr>
<td>Ingestion</td>
<td>With large amounts ingested may cause gastrointestinal blockage</td>
</tr>
</tbody>
</table>

*Most important symptoms/effects, acute and delayed:*

**Inhalation**
May cause shortness of breath, tightness of the chest, a sore throat, and cough

**Skin contact**
May cause redness and itching

**Eye contact**
May cause itching, burning, redness, and tearing

**Ingestion**
With large amounts ingested may cause gastrointestinal blockage

**Indication of immediate medical attention and special treatment needed**
Provide general supportive measures and treat symptomatically.

**General information**
Ensure that employees are aware of the materials involved, and take precautions to protect themselves

5. Fire-fighting measures

**Suitable extinguishing media**
Dry Chemical, Water Spray, Foam, Carbon Dioxide. Avoid using direct streams of water on molten burning material.

**Unsuitable extinguishing media**
Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**
Carbon monoxide, carbon dioxide, original monomer other hydrocarbon oxidation

**Special protective equipment and precautions for firefighting**
Wear self-contained breathing apparatus and protective suit.

**Fire-fighting equipment / instructions**
Use standard firefighting procedures and consider the hazards of other involved material

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Keep unnecessary personnel away. Use personal protective equipment (PPE).

**Methods and materials for containment and clean up**
Land Spill: Spilled material should be swept up and discarded. Comply with applicable federal, state and local regulations.
Water Spill: Notify local authorities if spilled in waterway or sewer. Skim from surface of water if possible.
Waste Disposal: Reclaim where possible. Dispose of in accordance with local and state regulations. This is not an RCRA

**Environmental precautions**
Prevent further leakage or spillage if safe to do so.

7. Handling and storage

**Precautions for safe handling**
Keep away from sparks heat and flame. This product may react with strong oxidizing agents and should not be stored near such materials. Store boxes and bags of material in areas protected with automatic sprinklers. Use proper grounding procedures. Inspect handling system regularly for possible accumulation of fines. Fines can present an explosive hazard when exposed to
8. Exposure controls/personal protection

**Occupational exposure limits**
No exposure limits noted for ingredient(s).

**Biological limit values**
No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**
Provide mechanical ventilation; in general such ventilation should be provided at compounding/converting areas and at fabricating/filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in handling the molten material.

**Individual protection measures, such as personal protective equipment**
- **Eye/face protection**: Wear safety glasses in compliance with OSHA regulations
- **Hand protection**: Wear clean, long-sleeved, body-covering clothing.
- **Other**: N/A
- **Respiratory protection**: If handling at elevated temperatures and overexposure has been determined, an air-respirator is advised in the absence of proper environmental control.
- **Thermal hazards**: Wear appropriate thermal protective clothing, when necessary
- **General hygiene consideration**: Wash hands before breaks and immediately after handling product

9. Physical and chemical properties

**Appearance**
- **Physical state**: Solid
- **Form**: Fibers
- **Color**: Various white color
- **Odor**: Slight to none
- **Odor threshold**: Not available
- **pH**: Not available
- **Melting point/freezing point**: 200°C (392°F)
- **Initial boiling point and boiling range**: Not available
- **Flash point**: >200°C (392°F)
- **Evaporation rate**: Not available
- **Flammability (solid, gas)**: Not available

**Upper/lower flammability or explosive limits**
- **Flammability limit - lower %**: Not available
- **Flammability limit - lower %**: Not available
- **Explosive limit - lower %**: Not available
- **Explosive limit - upper %**: Not available
- **Vapor pressure/density**: Not available
- **Specific gravity**: 1.31 (g/cm³ @ 23°C)
<table>
<thead>
<tr>
<th>Relative density</th>
<th>1.27 (g/cm³ @ 23°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility(ies)</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>&gt;440 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>&gt;200 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 10. Stability and reactivity

<table>
<thead>
<tr>
<th>Reactivity</th>
<th>Strong oxidizing agents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical stability</td>
<td>Material is stable under normal conditions</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No dangerous reactions known under conditions of normal use</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Minimize dust generation. Avoid heat, sparks, open flames and other ignition sources</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Strong oxidizing agents</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Small quantities of low molecular weight hydrocarbons, alcohols, aldehydes (incl. Formaldehyde), carboxylic acids, carbon oxides and ketones can be formed during thermal processing</td>
</tr>
</tbody>
</table>

### 11. Toxicological information

#### Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>Ingestion is not a likely route of exposure. If ingested seek medical attention</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Remove person to fresh air. If irritation develops obtain medical attention.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>If irritation develops, flush with running water. Wash affected area with soap and water</td>
</tr>
<tr>
<td>Eye contact</td>
<td>If irritation develops do not scratch or rub, flush with running water for 10-15 minutes.</td>
</tr>
</tbody>
</table>

#### Symptoms related to the physical, chemical and toxicological characteristics

See information on likely routes of exposure.

#### Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Due to this material's high molecular weight, this material is considered to be little to no toxicological concern</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Not available</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Not available</td>
</tr>
<tr>
<td>Skin sensation</td>
<td>Not available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>International Agency for Research on Cancer (IARC): Group 3 - NOT classifiable as to its carcinogenicity to humans.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific target organ toxicity single exposure</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific target organ toxicity repeat exposure</td>
<td>Not available</td>
</tr>
</tbody>
</table>
Aspiration hazard: Not likely, due to the form of the product

Chronic effects: None Known

Further information: Exposure to powder or dust may be irritating to eyes, nose and throat.

### 12. Ecological information

**Ecotoxicity**: No known or expected ecotoxicity.

**Persistence and degradability**: Not available

**Bioaccumulative potential**: Not bioaccumulative

**Mobility in soil**: Not available

**Other adverse effects**: Not available

### 13. Disposal considerations

**Disposal instructions**: Dispose in accordance with all applicable regulations

**Waste from residue / unused product**: Empty containers or liners may retain so product residues. this material and its container must be disposed of in a safe manner

**Contaminated packaging**: Empty containers should be taken to an approved waste handling site for recycling

### 14. Transport information

**DOT**

**IATA**

**IMDG**

### 15. Regulatory information

**US Federal Regulations**: This Material is not Hazardous by OSHA Hazardous Communication Standard 29 CFR 1910.1200

**Superfund Amendments and Reauthorization Act of 1986 (SARA) (Y/N)**

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Y/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Delayed hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Pressure hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactivity hazard</td>
<td>No</td>
</tr>
<tr>
<td>SARA 302 Extremely hazardous substance</td>
<td>No</td>
</tr>
<tr>
<td>SARA 311/312 Hazardous Chemical</td>
<td>Yes</td>
</tr>
</tbody>
</table>

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory requirements.

**US state regulations**

**California Proposition 65**

WARNING: This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Developmental toxin
Methanol (CAS 67-56-1) Listed: March 16, 2012
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