Material Safety Data Sheet

Material Name: PRECIPITATED CALCIUM CARBONATE

*** Section 1 - Chemical Product and Company Identification ***

**Chemical Name:** Calcium Carbonate

**Product Use:** Mineral Additive

**Synonyms:** CALOFORT® N, CALOFORT® U, CALOPAKE® F, CALOPAKE® LIGHT, CALOPAKE® EXTRA LIGHT, CALOPAKE® 5970, MULTIFLEX-MM®, MULTIFLEX-MM® USP, STURCAL® F, STURCAL® H, STURCAL® L

**Manufacturer Information**

- **Emergency Contact:** Phone: +44 121 252 45 00
- **Fax:** +44 121 252 45 55
- **Specialty Minerals Llfford**: (see Sec. 16 for additional languages)
- **Llfford Lane, Kings Norton, Birmingham, UK: B30 3JW**
- **Emergency #:** +44 121 252 45 00
- **Mtg Contact:** See Section 16 for additional languages

*** Section 2 - Composition / Information on Ingredients ***

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent (wt/wt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>471-34-1</td>
<td>Precipitated Calcium Carbonate</td>
<td>60-100</td>
</tr>
</tbody>
</table>

**Component Information**
This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication)

*** Section 3 - Hazards Identification ***

**Emergency Overview**
This product is irritating to the eyes, respiratory system and skin.

**Potential Health Effects:**

- **Eyes**
  Dust or powder may irritate eye tissue.

- **Skin**
  Dust or powder may irritate the skin.

- **Ingestion**
  No significant adverse effects are expected upon ingestion of the product.

- **Inhalation**
  Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

**Medical Conditions Aggravated by Exposure**
Pre-existing respiratory, skin and eye diseases.

**Potential Environmental Effects**
No significant environmental effects.

**HMIS Ratings:**
- Health: 0 Fire: 0 Reactivity: 0 Pers. Prot.: B
- Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe 5 = Chronic hazard

*** Section 4 - First Aid Measures ***

**First Aid:**

- **Eyes**
  In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- **Skin**
  For skin contact, wash immediately with soap and water.

- **Ingestion**
  Product is not considered toxic in small amounts.

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First Aid: Inhalation
Move person to non-contaminated air.

First Aid: Notes to Physician
Provide general supportive measures and treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards
This material will not burn.

Hazardous Combustion Products
None identified.

Extinguishing Media
Use methods for the surrounding fire.

Fire Fighting Equipment/Instructions
None necessary.

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures
Contain the discharged material.

Clean-Up Procedures
Provide adequate ventilation. Cleanup personnel should use personal protective equipment to reduce eye contact, inhalation of dust, and prolonged skin contact. Use vacuum equipment with HEPA filters or wet sweeping/dust suppressant if sweeping is required. Personal safety, handling and exposure recommendations described elsewhere in this data sheet apply to exposure during clean up of spilled material and must be followed.

Evacuation Procedures
None necessary.

Special Procedures
No additional information available.

*** Section 7 - Handling and Storage ***

Handling Procedures
Avoid getting this material into contact with your skin and eyes.

Storage Procedures
Store in a cool, dry, well-ventilated area.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines
A: General Product Information
Keep formation of airborne dusts to a minimum. Follow the ACGIH recommended exposure limit of 10 mg/m3 for Particulates Not Otherwise Classified (PNOC).

B: Component Exposure Limits
Precipitated Calcium Carbonate (471-34-1)
ACGIH: 10 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica)

Engineering Controls
Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

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PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face
Wear dust goggles.

Personal Protective Equipment: Skin
Use impervious gloves.

Personal Protective Equipment: Respiratory
Use a dust mask for particulate concentrations exceeding the Occupational Exposure Limit.

Personal Protective Equipment: General
Eye wash fountain and emergency showers are recommended.

*** Section 9 - Physical & Chemical Properties ***

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White Powder</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Partially soluble</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Unknown</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.71</td>
</tr>
</tbody>
</table>

*** Section 10 - Stability & Reactivity ***

Chemical Stability
Stable under normal conditions.

Chemical Stability: Conditions to Avoid
Avoid contact with acids.

Incompatibility
Calcium Carbonate ignites on contact with fluorine. It is incompatible with acids, alum, ammonium salts, and mercuric/hydrogen mixtures.

Hazardous Decomposition
Thermal oxidative decomposition of calcium carbonate can produce calcium oxide.

Hazardous Polymerization
Will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity
A: General Product Information
Overexposure to calcium carbonate may result in irritation to eyes, skin and respiratory system. Acute ingestion may result in mild gastrointestinal distress while chronic exposure may result in hypercalcemia, alkalosis and renal impairment. Approximately 70-80% of ingested calcium carbonate is retained in the lung. Animal studies suggest that inhalation of calcium carbonate dusts may enhance susceptibility to respiratory infection.

B: Component Analysis - LD50/LC50
Precipitated Calcium Carbonate (471-34-1)
Oral LD50 Rat: 6450 mg/kg

Carcinogenicity
A: General Product Information
No carcinogenicity data available for this product.

B: Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

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*** Section 12 - Ecological Information ***

Ecotoxicity
A: General Product Information
   This material is not expected to be harmful to aquatic life.
B: Component Analysis - Ecotoxicity - Aquatic Toxicity
   No ecotoxicity data are available for this product's components.

Environmental Fate
   This material shows no bioaccumulation or food chain concentration toxicity potential.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions
A: General Product Information
   No components are identified as hazardous wastes.
B: Component Waste Numbers
   No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions
   If this material becomes a waste it does not meet the criteria of a hazardous waste as defined by USEPA RCRA regulations. More stringent state or local regulations may apply. Combining this material with another may alter this classification.

*** Section 14 - Transport Information ***

US DOT Information
   Shipping Name: None necessary.
   Additional Info.: None.

International Transportation Regulations
   This product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations.

*** Section 15 - Regulatory Information ***

US Federal Regulations
A: General Product Information
   TSCA - All naturally occurring components of this product are automatically included in the USEPA TSCA Inventory List per 40 CFR 710.4 (b). All other components are on the USEPA TSCA Inventory List.

   FDA - This product is covered by (FDA) US 21 CFR, Part 184. Sections 184.1 and 184.1191 affirm that calcium carbonate is "Generally Recognized As Safe (GRAS)" for use as a direct and indirect human food ingredient. Affirmation of a substance as GRAS is further referenced in many of the FDA food additive regulations as a basis for various applications involving direct and indirect contact with food. PCC used in paper and paperboard complies with US 21 CFR 176.170 and 176.180 for direct contact with aqueous and fatty foods, and dry foods, respectively.

B: Component Analysis
   None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

   Acute Health: Yes Chronic Health: No Fire: No Pressure: No Reactives: No

State Regulations
A: General Product Information
   Other state regulations may apply. Check individual state requirements.

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ID: C-MS-AT-2020LIFSPC

B: Component Analysis - State
None of this product's components are listed on the state lists from CA, FL, MA, MI, MN, NJ, or PA.

Other Regulations
A: General Product Information
Canadian WHMIS Classification: Not WHMIS Regulated

B: Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>AUST</th>
<th>PHIL</th>
<th>MITI</th>
<th>KOREA</th>
<th>ELINCS</th>
<th>CHINA</th>
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</thead>
<tbody>
<tr>
<td>Precipitated Calcium Carbonate</td>
<td>471-34-1</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

C: Component Analysis - WHMIS IDL
No components are listed in the WHMIS IDL.

***Section 16 - Other Information***

Other Information

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Key/Legend:
- EPA = Environmental Protection Agency;
- TSCA = Toxic Substance Control Act;
- ACGIH = American Conference of Governmental Industrial Hygienists;
- IARC = International Agency for Research on Cancer;
- NIOSH = National Institute for Occupational Safety and Health;
- NTP = National Toxicology Program;
- OSHA = Occupational Safety and Health Administration;
- DOT = Department of Transportation;
- RCRA = Resource Conservation and Recovery Act

This is the end of MSDS # C-MS-AT-2020LIFSPC

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