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Section 1: Chemical Product and Company Identification

Manufacture/Supplier  
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Product Name or Number: **Cel-Span® 680**

Section 2: Identity of Material

Synonyms Flame Retardant MB CAS Number 9002-88-4 Polyethylene Resin

Formula This product Primarily consist of Low Density Molecular Polymers. This product does not contain reportable hazardous ingredients as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Section 3: Hazard Specifications

Emergency Overview

Potential Health Effects

Melt Processing Health Effects

Solid pellets with slight or no odor. Spilled pellets create slipping hazard. Can Burn in fire creating dense toxic smoke. Molten plastic can cause severe thermal burns. Fumes produced during melt processing may cause eye, skin and respiratory tract irritation. Secondary operations (grinding or sanding), can produce dust which may present an explosion or respiratory hazard. There are no known human health effects aggravated by exposure to this product, however sensitive persons should take necessary precautions

EYE: Product may cause irritation or injury due to mechanical action  
SKIN: Pellets not likely to cause irritation  
INGESTION: Not Acutely Toxic  
INHALATION: Unlikely due to physical form

Chronic/Carcinogenicity

NTP: Not Tested  
OSHA: Not Regulated  
IARC: Not Listed

Molten Plastic can cause severe burns. Processing fumes may cause irritation to the eyes, skin, and respiratory tract, and in cases of severe over-exposure, nausea and headache. Grease-like processing fumes condensates on ventilation duct work, molds and other surfaces can cause irritation and injury to skin

Section 4: First Aid Measures

EYE: Remove contact lenses at once. Immediately flush eyes well with copious quantities of water or normal saline for at least 20 - 30 minutes. If irritation persists, seek medical attention.

SKIN: Wash skin thoroughly with soap and water. Seek medical attention if rash or burns occurs.

INGESTION: Not probable. If a large amount is swallowed, seek medical attention.

Safety glasses recommended when handling compound, remove contact lenses at once

INHALATION: Unlikely due to physical form

PROCESSING: For molten plastic skin contact, cool rapidly with water and immediately seek medical attention. Do not attempt removal of plastic without medical assistance. Do not use solvent for removal.

For processing fume inhalation irritation, leave the contaminated area and breathe fresh air. Seek medical attention if difficulty in breathing occurs.

Section 5: Fire Fighting Measures

Fire Fighting : Approved pressure demand breathing apparatus and protective clothing should be used for all fires. Water spray is the preferred method. This product will melt, but not be carried on the surface of water.

Media: Water spray and foam. Water is best extinguishing medium. Carbon dioxide and dry chemical are not recommended due to their lack of cooling capacity and may permit re-ignition.

Flashpoint: N/A

Conditions for Flammability: Requires continuous flame source to ignite

Autoignition: 430 °C (806 °F)

Section 6: Accidental Release Measures

General : Sweep or gather up material and place in proper container for disposal or recovery.

Section 7: Handling and Storage

Handling: Follow recommendations on label and in processing guide. Prevent contact with skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation. Secondary operations such as grinding, sanding or sawing may produce a dust explosive hazard. Use aggressive housekeeping activities to prevent dust accumulation; employ bonding, grounding, and venting and explosion relief provisions in accordance with accepted engineering practices.

Storage: Store in a dry place away from moisture, excessive heat and sources of ignition. Avoid storage near foods to prevent contamination.

**Section 3: Exposure and Personal Protection**

Controls: A continuous supply of fresh air to the workplace with removal of processing fumes through exhaust systems is recommended. Design guidelines/techniques may be found in publications such as: Industrial Ventilation; available from the American Conference of Governmental Industrial Hygienists, Committee on Industrial Ventilation, P.O. Box 16153, Lansing, MI 48901

EYE / FACE: Wear Safety glasses with side shields or chemical goggles.

SKIN: When handling pellets, avoid prolonged or repeated contact with skin. When melt processing product, wear long pants and long sleeves

RESPIRATORY: When processing fumes are not adequately controlled, use a respirator approved for protection from organic vapors and acid gases.

**Section 9: Physical and Chemical Properties**

Physical State:	Solid	Vapor Density:	Not Applicable
Odor/Appearance	Pellet with slight odor	Specific Gravity:	>1
Water Solubility:	Insoluble	pH:	Not Applicable
% Volatiles:	Negligible	Odor Threshold	Not Established
Boiling Point:	Not Applicable	Evaporation:	Negligible
Melting Point:	See comment right	Comment: This product does not exhibit a sharp melting point, but softens gradually over a wide temperature range	
Vapor Pressure:	Negligible		

Instability <b>0</b>
Reactivity <b>0</b>

**Section 10: Stability and Reactivity**

STABILITY: Stable under recommended conditions of storage and handling.

REACTIVITY: Not reactive under recommended conditions of storage, handling, processing and use.

AVOID: Do not exceed temperature recommendations in product literature; purgings should be small, flat shapes, or thin strands to cool quickly

DECOMPOSITION Processing fumes evolved at recommended processing conditions may include trace levels of phenol, alkylphenols, and diarylcarbonates

**Section 11: Toxicological Information**

EYE: Product not considered primary eye irritant. When similar products, in finely divided form, were placed in the eyes of rabbits, slight transient redness or discharge occurred-consistent with the expected slightly abrasive nature of the resin particles.

SKIN: Product not considered primary skin irritant. Draize Skin Primary Irritation Score (rabbit) for similar products, in finely divided form, for 24 hour exposure is 0. Not expected to be a skin sensitizer based on results of modified Buehler Guinea Pig Sensitization Test from similar products. Dermal LD50 (rabbit)>5g/kg, estimated.

ACUTE ORAL: Oral LD50 (Rat)>5g/kg, estimated

ACUTE INHALATION Processing fumes from similar products are not considered toxic. In acute inhalation tests, laboratory rats were exposed to processing fumes at concentrations exaggerating those that would likely occur in workplace conditions. No deaths or signs for toxicity except transient irritancy in some cases, were noted during the 6 hour fume exposure test. No distinct treatment related tissue or organ changes were noted in gross necropsies.

SUBCHRONIC: In subchronic testing, the base resin was considered physiologically inert when fed to rats for 8 weeks at a dietary level of 6%.

**Section 12: Ecological Information**

GENERAL: Not expected to present any significant ecological problems

**Section 13: Disposal Information**

RCRA HAZARDOUS: Product is not a RCRA hazardous waste.

WASTE DISPOSAL: Recycling is encouraged. Landfill or incinerate in accordance with federal, state, and local requirements.

**Section 14: Transportation Information**

DOT HAZARD CLASS: not regulated    SHIP NAME: not regulated    ID #: Not Listed    TDGA: Not Listed

**Section 15: Regulatory Information**

TSCA STATUS: This product complies with the Chemical Substances Inventory requirements of the US EPA Toxic Substances Control Act (TSCA).

CERCLA: This product is not subject to CERCLA reporting requirements.

SARA 313: This product does not contain reportable substances subject to SARA 313.

WHMIS CLASS: Not a controlled product

**Section 16: Other**

The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use, additional safety may be required. PHOENIX PLASTICS CO., INC. makes no warranty, either expressed or implied, including merchantability and fitness.

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it into site safety programs in accordance with applicable hazard communication standards and regulations.

ABBREVIATIONS:

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| ACGIH: American Conference of Governmental Industrial Hygienists              | CAS# Chemical Abstract Service Number               |
| CA-65 California Proposition 65 (Safe Drinking Water & Toxic Enforcement Act) | FL: Florida Right-to-know Law, Substance List       |
| EPCRA 313: Emergency Planning and Community Right-to-Know Act, Section 313    | RCRA: Resource Conservation and Recovery Act        |
| WHMIS: Canadian Workplace Hazardous Materials Information System              | OSHA: Occupational Safety and Health Administration |
| RI: Rhode Island Right-to-Know Law, Hazardous Substance List                  | NPRI: Canadian National Pollutant Release Inventory |