**SAFETY DATA SHEET**
**Issue 5 – Rev. 5 – Date: MAY 2015**

## 1. IDENTIFICATION OF THE SUBSTANCE / COMPOUND AND OF THE COMPANY / FIRM

1.1 Identification of the substance or compound

Product name: **CALENDERED RIGID PVC**

SICOSMART: 206_T, 227_T, 287_T, 307_T, 347_T, 707_T

SICOFFSET: 206, 206_C2, 206_3J, 206_RA, 215_1N, 223, 227, 227_1N, 237, 238, 264_RC, 275, 277, 281, 284, 284_A4, 285, 286, 287, 287_C2, 287_RA, 288_RA, 302, 303_1C, 303_1N, 304_R2, 305, 305_1N, 305_R, 306, 307,315, 315_1C, 315_4D, 316_1C, 316_4D,326_C2, 347, 347_RB, 359, 386, 387, 407, 485, 507_4D, 507_A2, 582, 706, 707, 906, 947, 987

SICOLEX: S00, S04, S46, S66

SICOPLAY: 285_A4, 286_A4, 306_A4, 901_A4, 605_00

SICOPLAST: 157, 157_R1, 167, 167_R1, 167_R2, 178, 187, 205, 207, 207_R1 460, 787 987

SICOECO: H46, H04

SICOREG: S50, S70

1.2 Type of use of the substance / compound

Film for printing. In case of clear films: protective overlay for laminated cards.

1.3 Identification of the company / firm

Delmar Products Inc.

Plant : 400 Christian Lane Berlin, CT 06037
Tel (860)828-6501

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## 2. IDENTIFICATION OF DANGERS

2.1 Main dangers for health
No particular danger
This product is not considered dangerous according to 29 CFR 1910.1200

2.2 Main dangers for environment
No specific danger during normal use

## 3. COMPOSITION / INGREDIENTS

Compound of Polyvinyl Chloride and/or Vinyl Chloride / Vinyl Acetate Copolymer with the addition of polymeric modifying substances, mineral fillers, stabilizers, lubricants and dyes.

The concentration of single substances contained is below the limits defined in Directive 1999/45/EEC Article 3 paragraph 3, in the Annex I of Directive 67/548/EEC, in the Annex II part B of Directive 1999/45/EEC and in the Annex III part B of Directive 1999/45/EEC, 29 CFR 1910.1200.

## 4. FIRST AID MEASURES

4.1 Inhalation
No specific measure. In case of inhalation of powder of the product get the injured person away from exposure.

4.2 Contact with skin
No specific measure. In case of contact with melted or highly heated product do not remove but cool immediately with water and ask for medical assistance.

4.3 Ingestion
In case of ingestion of product particles apply symptomatic treatment if needed and ask for medical assistan

## 5. FIRE FIGHTING MEASURES

PVC is weakly inflammable.

It is self-extinguishing: the product catches fire when put to a flame, but the combustion ceases as soon as the flame is shifted away.

Use normal extinguishers (powder, carbon dioxide, foam or water extinguishers) to extinguish the fire.

The combustion or decomposition of PVC causes the formation of carbon dioxide, water, hydrochloric acid and carbonaceous residues from the decomposition of the polymer.

In a lesser degree other compounds may be produced, among which carbon oxide prevails.

Avoid inhaling fumes.
Emergency teams must use proper equipment to protect their body and respiratory system. The use of a respirator is recommended.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Individual precautions
No specific measure, adequate individual hygiene.

6.2 Environmental precautions
Curb leaks. If the product has flown into watercourses or the drainage system alert the concerned authorities.

6.3 Cleaning methods
Mechanical or manual collection in a proper container. Clearly label the content and dispose or recycle according to the effective laws

## 7. HANDLING AND STORAGE

7.1 Handling
Avoid the accumulation of electrostatic charge during the work.
No particular precaution required for handling at ambient temperature.
In case thermal treatments are used, fumes must be vacuum-cleaned and an adequate ventilation must be provided.

7.2 Storage
No particular measure required.

Store in cool and airy places, with a temperature lower than 30°C and relative humidity of 40-60%, not exposed to weather and sunlight.
Keep the material in the original package.

7.3 Particular applications
Not known

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Limits to exposure
There are no limits to the exposure to films or sheets of product.

8.2 Control of exposure
Not required

8.2.1 Control of professional exposure
Not required

8.2.1.1 Respiratory protection
Not needed for normal use

8.2.1.2 Hand protection
Not needed for normal use

8.2.1.3 Eye protection
Not needed for normal use

8.2.1.4 Skin protection
Not needed for normal use

8.2.2 Control of environmental exposure
Not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

-Appearance: Solid as sheets of as films coiled in reels, color: transparent, white or other colors
-Odor : odorless

9.2 Important information on human health, safety and environment

-PH: not applicable
-Boiling point/interval: not applicable
-Flash Ignition Temperature (FIT) : 390 °C (ASTM D1929)
-Inflammability: self-extinguishing, non flame propagator
-Decomposition temperature: > 130 °C for a long exposition time
< 250 °C for a short exposition time
- Thermal decomposition is very slow at low temperatures, but accelerated at high temperatures
-Calorific value: 5800 Kcal/Kg
-Explosive properties: not applicable
-Oxidizing properties: not applicable
-Steam pressure: not applicable
-Apparent density: about 1,15-1,45 g/cm3 at 20°C
-Solubility
-Water Solubility: insoluble
-Solubility (other):soluble in cyclohexanone, tetrahydrofuran, dichloroethane
-Octanol –water distribution coefficient : not applicable
-Viscosity: not applicable
-Steam density: not applicable
-Speed of evaporation: not applicabl

9.3 Other information
-miscibility: not applicable
-conductivity: not applicable
-softening point: > 68 °C (Vicat in oil /1Kg.)

## 10. STABILITY AND REACTIVITY

10.1 Conditions to avoid
There are no risks of dangerous reactions if the material is stocked and/or handled in accordance with good techniques.

10.2 Materials to avoid
With the exception of some strong acids like Sulfuric acid (>90%) and nitric acid (>50%), PVC is normally resistant to acids and to alkaline aqueous solutions up to 60° C. Above this temperature strong acids attack the polymer.

Bromine and Fluorine react with PVC at ambient temp, whereas Chlorine has weak action.

10.3 Dangerous products from decomposition
Thermal decomposition releases toxic products: Hydrochloric acid, carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

11.1 General
The product may contain traces of vinyl chloride monomer

11.2 Inhalation
The vapors released during hot-working may cause irritations to the respiratory system.

11.3 Contact with skin
No effect from contact with the product reported.

11.4 Contact with eyes
No effect from contact with the product reported.

11.5 Ingestion
Unlikely to be dangerous if ingested.

11.6 Prolonged exposure
No effect from contact with the product reported.
The possible prolonged exposition to inhalation of high concentrations of the powder produced by mechanical product processing may cause respiratory problems, as powders usually do.

## 12. ECOLOGIC INFORMATION

Ecotoxicity
The product is insoluble in water
There is no evidence of risks for aquatic life.
The product is solid and insoluble and does not disperse into the environment.

## 13. DISPOSAL CONSIDERATIONS

Scraps can be recycled and/or reclaimed in the productive cycle.
The product must be disposed of in full accordance with the laws of the Community, the State and the Region.

## 14. TRANSPORT INFORMATION

The product is not classified as dangerous for transport.
USDOT: Not classified
IMDC: Not classified
ADR: Not classified
RID: Not classified
ICAO/IATA: Not classified
- -UN Number: Not classified
- -Class: Not classified
- -Correct description for shipping: Not applicable
- -Packing group: Not applicable
- -Marine pollutant: Not applicable
- -Other information: Not applicable

## 15. REGULATORY INFORMATION

The product is considered NOT DANGEROUS
The identification label reports the commercial name

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## 16. OTHER INFORMATION

This material safety data sheet has been compiled upon the basis of the best knowledge and information available at the time of the issue.

It is meant to be a guide for the technical use of the product in all the production processes where it is used.

Delmar Products does not guarantee that all possible environmental and safety measures have been covered and that no other measures are needed in particular operative conditions.