

**IPPLON® DP1000****1 - IDENTIFICATION OF THE PREPARATION AND THE COMPANY/BUSINESS****Identification of the substance or preparation**Name of product: **IPPLON® DP1000****Use of the substance / preparation**

Article: Bagging Film

**Company / undertaking identification**

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**2 - HAZARDS IDENTIFICATION****Classification:**

This product is a clear plastic film. It is not hazardous according to article 31 and Annex II of the REACH Regulation. There is no labeling obligation for this product.

**Critical hazard to man and environment:**

Irritating and/or toxic vapors may be released in the event of thermal decomposition. Molten product may cause severe skin burns.

**3 - COMPOSITION/INFORMATION ON INGREDIENTS****Product class:**

Film manufactured from nylon resin.

**Hazardous ingredients:**

CAS-Number	EC-Number	Chemical name	Content	Symbol	R-phrases
105-60-2	203-313-2	$\epsilon$ -caprolactam	< 2.5 %	Xn	20/22-36/37/38

**4 - FIRST AID MEASURES**

**Skin:** If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burn.

**Eyes:** None needed under normal usage. If material comes in contact with eye, flush eyes with water for 10 to 15 minutes while holding eyelids apart.

**Inhalation:** None needed under normal usage. Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician after significant exposure.

**Ingestion:** Not a probable route of exposure.

**5 - FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Water, carbon dioxide, foam, dry chemical.

**Extinguishing media which must not be used for safety reasons:** High power water jet.

**Unusual fire and explosion hazards:** Combustible. Molten film at higher temperatures can ignite and will burn.

**Special protective equipment:** In the event of fire, wear an approved positive pressure self-contained breathing apparatus and full protective clothing.

### 6 - ACCIDENTAL RELEASE MEASURES

**Environmental precautions:** Do not allow to enter ground water, sewage or drains.

**Methods for clean-up:** Collect and store into containers for disposal.

### 7 - HANDLING AND STORAGE

**Handling:** Good industrial practice for handling of chemical products should be followed. Provide adequate ventilation, and local exhaust as needed.

**Storage:** Store in a cool, dry area, away from direct sunlight, at 20-25°C and 50-55% relative humidity. Keep original packaging tightly closed until use to prevent moisture absorption and contamination.

### 8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Exposure limit values:**

CAS No.	EC No.	Chemical name	Type	Value
105-60-2	203-313-2	ε-caprolactam	WEL-TWA	1 mg/m <sup>3</sup> (dust only)
			WEL-STEL	3 mg/m <sup>3</sup> (dust only)
			WEL-TWA	10 mg/m <sup>3</sup> (dust and vapour)
			WEL-STEL	20 mg/m <sup>3</sup> (dust and vapour)
			WEL (Europe) 8-hour TWA	10 mg/m <sup>3</sup>
			WEL (Europe) STEL	10 mg/m <sup>3</sup>

**Exposure controls:** Overall room ventilation and/or local exhaust at points of fume generation in the work area.

**Occupational exposure controls:**

Respiratory protection: None under normal usage.

Hand protection: Protective gloves according to EN 407 are required when handling hot material.  
Glove material: nitrile rubber

Eye protection: Use tightly sealed safety glasses according to EN 166.

Hygiene measures: Wash hands before handling food and at the end of work.

### 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Thin pink film.
Odor:	None.
pH:	Not applicable.
Solubility in water:	Insoluble.
Vapor pressure:	Negligible at room temperature.
Vapor density (air=1):	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	> 300°C.
Auto-ignition temperature (ASTM D 1929):	> 400°C
Melting point/range:	212-220 °C.
Density:	1.13-1.14 g/cm <sup>3</sup>

### 10 - STABILITY AND REACTIVITY

**Conditions to avoid:** Heating above 300°C.

**Materials to avoid:** Strong acids and strong oxidizing agents.

**Hazardous decomposition products:** In case of thermal decomposition, during overheating or combustion, toxic gases or fumes may be evolved: carbon monoxide, carbon dioxide, nitrogen oxides, small amounts of hydrogen cyanide, ε-caprolactam and combustion by-products (hydrocarbons).

**Additional information:** The product is stable at the handling and storage conditions recommended per § 7 of the safety data sheet and under normal processing conditions.

### 11 - TOXICOLOGICAL INFORMATION

According to the best of our knowledge and to our experience, the product is not harmful to health provided that it is correctly handled and used according to the given recommendations.

### 12 - ECOLOGICAL INFORMATION

**Ecotoxicity:** Water hazard class: 1 = mild water pollutant

**Persistence and degradability:** Product is not biodegradable. The insoluble part can be disposed of mechanically in suitable waste water cleaning plants.

**Additional ecological information:** Do not allow to enter ground water, sewage or drains.

### 13 - DISPOSAL CONSIDERATIONS

**Disposal recommendations:** Like most thermoplastics, the product can be recycled. Where possible, recycling is preferred to landfill or incineration. Disposal of the product and the packaging must be done in compliance with local, state and federal regulations.

European waste key numbers: 070213 = Plastic waste

**Contaminated packaging:** Waste key number 150101 – Paper and cardboard packaging.

Waste key number 150102 – Plastic packaging.

### 14 - TRANSPORT INFORMATION

Not classified as a hazardous material with respect to transportation regulations (ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport).

### 15 - REGULATORY INFORMATION

**Classification:**

Code letter and hazard symbol: not applicable.

R phrase (s): not applicable.

S phrase (s): not applicable.

**National regulations – EC member states:**

Volatile organic compounds (VOC): 0% by weight.

**National regulations – USA:**

NFA Hazard rating:

Health: 0 (Minimal)

Fire: 1 (Slight)

Reactivity: 0 (Minimal)

<b>16 - OTHER INFORMATION</b>
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R phrase (s):           R20/22 = Harmful by inhalation and if swallowed.  
                              R36/37/38 = Irritating to eyes, respiratory system and skin.

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

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**Revision description:**

Conformance to REACH regulation.