

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	<b>Film Cast Barrier</b>
Presentation of the product	Film reels
Product families	Crystal Films – White – Metallic
Company name	Vitopel Argentina S.A.
Industrial plant address	Ruta Nacional N° 9 - km 783 X5236ZAA - Villa del Totoral Córdoba Province – Argentina Tel: (54) 03524 478780
Electronic address	<a href="mailto:contacto@vitopelargentina.com">contacto@vitopelargentina.com</a>
Web Site	<a href="http://www.vitopelargentina.com">www.vitopelargentina.com</a>

## 2. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	N° CAS
Polypropylene (PP)	009003-07-0
Additives	Trade secret
Polyethylene (PE)	9002-88-4
Ethylene-vinyl alcohol copolymer (EVOH)	25067-34-9
Polyamide (PA)	32131-17.2

Ingredients Contributing to Hazard	Not applicable as they are inert substances.
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## 3 HAZARD IDENTIFICATION

<b>No special risk is known</b>	
Most important dangers	Stable product, does not present danger in its normal state of handling and storage.
Product Effects	Product harmless to human contact and non-biodegradable.
Adverse effects on human health	The product does not have risks in its normal state. It is an inert and non-toxic product.
Environmental effects	Non-biodegradable product.
Physical / Chemical Hazards	The handling of the product at room temperature does not present risks for the operator, and it can be handled without protective equipment, due to the characteristics of non-chemical reactivity of the product. The friction to which the Film Cast Barrier is subjected during processing favors the accumulation of electrostatic charges. Eventual electrical discharges can generate ignition, or cause an electric shock to the operators. Therefore, it is advisable to use grounded equipment and avoid hazardous environments explosive and/or flammable atmosphere.

<b>Specific hazards</b>	It does not present any specific danger, as it is inert and non-toxic.
<b>Product classification</b>	Product not classified as dangerous by the ONU.

#### 4. FIRST AID MEASURES

<b>Inhalation</b>	There is no risk of inhalation at room temperature. During processing it is recommended that the workplace be well ventilated (natural or mechanical ventilation). In the event of any difficulty breathing normally, seek medical assistance.
<b>Skin contact</b>	There is no health risk from contact with the material at room temperature. Contact with hot material can cause burns; in such a case, cool the affected part applying plenty of cold water, do not remove the material adhered to the skin and seek medical assistance.
<b>Eye contact</b>	In contact with the eyes, there is no health risk. In case of projections of material particles that impact the eyes, seek medical assistance. Safety glasses are recommended for all work environments.
<b>Intake</b>	There are no known harmful health risks from the ingestion of Film Cast Barrier. If this occurs, seek medical assistance.

#### 5. FIRE FIGHTING MEASURES

<b>Appropriate Extinguishing Media</b>	The material is combustible. In case of fire, the area should be removed, verifying the extraction of the fumes from the combustion. Film Cast Barrier, when combusted, produces class A (solid) fires, and must be fought with: water spray, foam (AFFF), dry chemical powder (PQS) or halon clean, as extinguishing agents.
<b>Specific hazards</b>	When the Film Cast Barrier burns, it generates flames, water vapor, carbon dioxide and in the absence of oxygen it generates carbon monoxide. Combustion fumes are irritating and toxic.
<b>Fire protection</b>	Positive pressure breathing devices are recommended. Persons without proper respiratory protection should leave area to prevent exposure significantly to flue gases. In closed or poorly ventilated areas, use self-contained breathing apparatus even after the fire during cleanup tasks, as well as during attack and firefighting operations

## 6 CONTROL MEASURES FOR SPILLS OR ACCIDENTAL LOSSES

<b>Removal of combustion sources</b>	All spills or leaks must be removed or contained avoiding contact with sources of combustion.
<b>Dust emission control</b>	Not applicable, since the film used correctly does not generate dust.
<b>Environmental precautions</b>	Contain the material and avoid affecting watercourses and sewage or rainwater networks.
<b>Methods for cleaning</b>	Vacuum or sweep the product, and if possible recover it through recycling.
<b>Provision</b>	Film Cast Barrier is not classified as a hazardous material. This product can be delivered to companies specialized in recycling, and is an ecologically correct alternative to plastic waste.

## 7. HANDLING AND STORAGE

<b>Handling - Technical measures</b>	
<b>Prevention for the exposed worker</b>	Natural ventilation is sufficient, no additional respiratory protection is necessary.
<b>Fire and explosion prevention</b>	The product is combustible and can ignite if it is in contact with direct flame. It is recommended to use equipment grounded, avoiding electrostatic discharges.
<b>Precautions for safe handling</b>	It is advisable to wear protective gloves when handling the hot material during processing. Safety glasses are recommended for all work environments.
<b>Storage</b>	
<b>Appropriate technical measures</b>	<p>No special technical storage measures are necessary. It is not recommended to stack the pallets with coils, although studies carried out have shown that it is possible to stack up to two (2) pallets or three (3) meters high at most.</p> <p>The straps of the pallets are under tension, when cutting them they recommends the use of eye protection and gloves, and that the pallets be disassembled in appropriate places to avoid injuries to the personnel handling them.</p> <p>The use of safety shoes with steel toe caps is recommended when handling coils or pallets.</p> <p>During handling and transport it is recommended to avoid placing the</p>

	<p>reels directly on the ground or hit their sides, since they can cause the loss of film due to physical damage and cause breaks during use in the machine.</p> <p>Cast Barrier Films are very slippery, so they should not be used as floor covering or even permanent. in access or passage areas obstructing the passage of people, as this can cause accidents.</p>
<b>Proper storage conditions</b>	<p>Store the coils in the original packaging until used. Always condition the material on a pallet, avoiding its exposure to humidity and dust.</p> <p>The coils must not be supported on themselves; They must be placed in a horizontal position without touching the floor, to avoid deformation and blocking of the material.</p> <p>Likewise, avoid exposing the material directly to the sun and rain. Keep the material protected from physical, chemical and bacteriological contaminants.</p> <p>Avoid impacts and perforations, mainly on the sides of the coils, as they can cause deformations or make the material useless.</p> <p>Avoid exposing the coils to excessive heat and cold.</p>
<b>Incompatible products and materials</b>	It is not recommended to store together with acids, chlorinated solvents and aromatic compounds.

## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

<b>Appropriate Personal Protective Equipment(EPP)</b>	
<b>Respiratory protection</b>	No respiratory protection is necessary.
<b>Eye protection</b>	The use of safety glasses is recommended in any work environment.
<b>Skin and body protection</b>	At room temperature it is not necessary to use protection. During processing at elevated temperatures, the use of suitable uniforms and protective gloves is recommended.
<b>Hygiene measures</b>	Avoid eating and drinking in areas where the product is being handled.

## 9. PHYSICAL-CHEMICAL PROPERTIES

<b>Physical state</b>	Solid
<b>Shape</b>	Film
<b>Color / Characteristics</b>	Transparent, white and metallic
<b>Smell</b>	Odorless
<b>pH</b>	Not applicable

<b>Fusion Range</b>	>160 °C
<b>Density</b>	The density of the Film Cast Barrier is 0.98 g/cm <sup>3</sup> .
<b>Water solubility</b>	Insoluble

## 10. STABILITY AND REACTIVITY

<b>Instability</b>	The product is stable.
<b>Dangerous reactions</b>	This is not known.
<b>Incompatible materials or substances</b>	Film Cast Barrera is apolar and not very reactive. some substances such as chlorinated solvents, aromatic compounds and chlorosulphonic, nitric and sulfuric acids, can react with the Film Cast Barrier. Although it is additive with antioxidants, excessive exposure to heat and radiation accelerates the natural process of degradation of the Film Cast Barrier.
<b>Hazardous decomposition products</b>	The products of the combustion of the Film Cast Barrier, like other natural and synthetic materials, must be considered toxic. The greatest risk is the generation of carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

<b>Information according to the different routes of exposure</b>	Film Cast Barrera is non-toxic. There are no known specific, carcinogenic, mutagenic, teratogenic, embryotoxic or toxic effects for reproduction derived from its use.
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## 12. ECOLOGICAL INFORMATION

<b>Environmental effects, behaviors and product impacts</b>	The Film Cast Barrier does not cause negative effects on the environment, however it is important to use specialized companies for its disposal, avoiding visual contamination. Film Cast Barrier is recyclable, and depending on the type of application, it can be reprocessed several times. The number 7 is used to identify the Film Cast Barrier as a plastic material recyclable.
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## 13. TREATMENT AND DISPOSAL CONSIDERATIONS

<b>Treatment methods and disposal</b>	
<b>Excess product and lags</b>	This product can be delivered to companies specialized in recycling, and is an ecologically correct alternative for the treatment of plastic waste. Waste disposal can be done in authorized burials, or by controlled incineration in accordance with national and local regulations. Film Cast Barrier is not classified as a hazardous material.

Used packaging	Wood packaging materials can be reused or sent to companies specializing in reuse or recycling.
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#### 14. INFORMATION ON TRANSPORTATION

National and international regulations	For domestic transport, Cast Barrera Films are not classified as dangerous by the Ministry of Transportation, nor is it classified as a dangerous product by the ONU. Special precautions in transport: the cargo must be properly protected to avoid contact with moisture and properly secured to prevent the product from falling. In case of Should this occur, collect the material for reuse, recycling or discard.
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#### 15. REGULATIONS

Regulations	Cast Barrera films comply with legal provisions in force to be used in contact with food of all types. For example, requirements of Mercosur resolutions (aligned with FDA and CFR)
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#### 16. OTHER INFORMATION

Manufacturer's Limitations of Liability	<p>All the information detailed in this sheet is based on our opinion and current knowledge and is intended to describe our products from the point of view of the safety, health, environmental and safety requirements. They should not be considered as a guarantee of specific properties.</p> <p>The information provided refers only to the Film Cast Barrera product, and not to its use in combination with other materials.</p>
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