



**Polycarbonatos  
do Brasil S.A.**

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## **MATERIAL SAFETY DATA SHEET**

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**BIRDEX PLASTIC**

### **SECTION I – IDENTIFICATION**

**PRODUCT NAME : POLYCARBONATE RESIN (PELLET and FLAKE)**

**Type : A, I, R, V, IB, IR, IN, VR, IBR, INR, HFR, HFV, HFVR, FB, FN and FNH**

**Grade : #1700 , #1900, #2000, #2200, #2500, #2600 and #2700**

**CHEMICAL FAMILY : Polycarbonate**

### **SECTION II – INGREDIENTS**

<b>COMPOSITION</b>	<b>CAS No.</b>	<b>NOMINAL %</b>
Poly-(4,4' isopropyliden diphenyl carbonate	25971-63-5	> 99,5 %
Proprietary ingredients		<= 0,5 %

### **SECTION III – HEALTH INFORMATION**

#### **INHALATION :**

Unlikely to be hazardous by inhalation unless heated. Fumes evolved by overheating during improperly processing may be injurious to health.

#### **EYE CONTACT :**

Solid or dust may cause irritation or corneal injury due to mechanical action.

#### **SKIN CONTACT :**

Molten material can cause severe burns.

#### **INGESTION :**

Minimal toxicity.

#### **HEALTH HAZARD (Acute and chronic) :**

Neither acute nor chronic effects are likely.



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#### SECTION IV – FIRST AID MEASURES

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##### INHALATION :

Not likely to be inhaled due to physical form. For processing fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing, difficult breath or any other symptoms develop, get medical attention.

##### EYE CONTACT :

Remove contact lenses at once. Immediately flush eyes with large amount of water for, at least, 15 minutes. Get medical attention.

##### SKIN CONTACT :

If contact with molten product occurs, treat as for thermal burn. Do not try to peel molten polymer from skin. Get medical attention promptly.

##### INGESTION :

~~Not a likely route of exposure. If person is conscious, give large amounts of water to drink. Induce vomiting. Get medical attention.~~

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#### SECTION V – FIRE FIGHTING MEASURES

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##### FIRE FIGHTING :

Water spray is the preferable extinguishing method. Use water spray to cool fire exposed surfaces, protect personnel, and extinguish the fire. Respiratory and eye protections are required for fire fighting personnel.

##### EXTINGUISHING MEDIA :

Water spray and foam. Carbon dioxide and dry chemical are not generally recommended because their lack of cooling capacity may permit re-ignition.

##### HARZADOUS COMBUSTION PRODUCTS :

Combustion products may include intense heat and high levels of black smoke containing carbon monoxide and carbon dioxide. Formation of traces of aliphatic and aromatic hydrocarbons, aldehyde, acids, phenol and phenol derivatives may occur.

Flash Point : Not applicable  
Lower Flammable Limit : Not applicable  
Upper Flammable Limit : Not applicable  
Autoignition Temperature : 550 oC

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#### SECTION VI – ACCIDENTAL RELEASE MEASURES

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Sweep or gather up product and place in proper container for disposal or recovery. Do not exit to sewers and waterways, because fish may eat pellets and obstruct their digestive tracts.

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## SECTION VII – HANDLING & STORAGE

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### HANDLING :

Prevent contact with skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation. If product is powder and transported with air, provide explosion relief system.

### STORAGE :

Store in a dry place away from moisture, excessive heat and sources of ignition.

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## SECTION VIII – OCCUPATIONAL EXPOSURE LIMITS

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OSHA regulation 29CFR1910.1000 :

5 mg/m<sup>3</sup> (respirable dust), and 15 mg/m<sup>3</sup> (total dust) based on OSHA PEL for nuisance dust.

ACGIH TLV : a TWA of 10 mg/m<sup>3</sup> (total dust) for nuisance dust.

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## SECTION IX – EXPOSURE CONTROLS/PERSONAL PROTECTION

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### VENTILATION :

A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust system is recommended. Processing fumes may contain small amounts of carbon dioxide, diphenyl-carbonate, phenol and substitute phenols.

Ventilation requirements must be locally determined to limit exposure to materials at their point of use.

### PERSONAL PROTECTION :

Skin : No precautions other than clean body-covering clothing should be needed.

Eye : Safety glasses should be sufficient for most operations, however, for dusty operations or when handling solutions of the material, wear chemical goggles.

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## SECTION X – PHYSICAL AND CHEMICAL PROPERTIES

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Physical state : Solid

Water Solubility : Insoluble



Odor and appearance:	Powder / Pellet	PH	:	Not applicable
Boiling Point	:	Not applicable	:	Not applicable
Softening Point	:	220 – 230 oC	:	1.2
Volatiles	:	Negligible	:	Negligible

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#### SECTION XI – STABILITY & REACTIVITY

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##### STABILITY AND REACTIVITY :

Stable and not reactive under recommended conditions of storage and handling processing and use.

##### CONDITIONS AND MATERIALS TO AVOID :

Attacked by strong oxidizing agents.

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#### SECTION XII – TOXICOLOGICAL INFORMATION

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ACCUTE ORAL LD50 : Not available. Components of this product are not hazardous under OSHA Hazard communication (29 CFR 1910 1200).

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#### SECTION XIII – DISPOSAL CONSIDERATIONS

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Efforts to recycle material should be made. If unable to use recycle, material should be buried in approved landfill or incinerated in accordance to all applicable federal, state and local regulations.

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#### SECTION XIV – TRANSPORT INFORMATION

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DOT HAZARD CLASS : Not regulated.  
IDENTIFICATION NUMBER : Not determined.

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#### SECTION XV – REGULATORY INFORMATION

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This product complies with the European Directives 90/128/EEC and amendments 92/39/EEC, 93/9/EEC, 95/3/EEC and 96/11/EEC.

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#### SECTION XVI – OTHERS

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The information contained herein is based on the data available to us and is believed to be correct. However POLICARBONATOS DO BRASIL S/A makes no warranty, expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. POLICARBONATOS DO BRASIL S/A assumes no responsibility for injury from the use of the product described herein.

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