MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Company: Bio-Art Equipamentos Odontológicos Ltda
Product Name: CRYSTAL PLATE 0.30 mm
Product use/application: Impression trays for dental use.
ANVISA Registration: No. 10368249014
Supplied in metallic packaging. Non-sterile product.

2. COMPOSITION AND INFORMATION ABOUT INGREDIENTS

Components: PVC
Common or generic chemical name: Polyvinyl chloride
Chemical Abstracts Service Registration: CAS No. 9002-86-2

3. HAZARD IDENTIFICATION

Adverse Health Effects: Skin contact: Does not irritate the skin.
Ingestion: Physiologically inert.
Eye contact: Mechanical irritation.

4. FIRST AID MEASURES

Eye contact: Remove product from eyes.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical for fires.
Specific hazards: Dense smoke emitted when burning without sufficient oxygen.
Special equipment to protect firefighters: Wear self-contained respiratory protection.

6. HANDLING AND STORAGE

Workers exposure prevention: Eye contact: Wear safety glasses.
Storage conditions. Store in a clean, ventilated place, protected from moisture.

7. EXPOSURE CONTROL AND PERSONAL PROTECTION

Appropriate personal protective equipment:
Eye protection: Safety glasses, if appropriate.
Skin and body protection: Appropriate clothing.
Hygiene measures: Consult the Engineer or Safety Technician for the selection of personal protective equipment, adapted to the working conditions.

8. TECHNICAL PROPERTIES (PHYSICAL AND CHEMICAL)

Physical state: Solid
Odor: None

Property	ASTM Method	Units	Values
Density	D 792	g/cm^3	1.38
Softening Point Viat	D 1525-65T	°C	82
Impact resistance	D 1095-A	G	585
Longitudinal Tension	-	%	-2 to -6
Transverse Tension	-	%	0 to 2
Specific Heat	-	cal/°C/gm	0.20 to 0.30
Water Absorption	-	%	0.04 to 0.40

Tensile Strength	D 638	kgf/cm^3	4.0 to 5.0
Elongation at Break	D 638	%	40 to 60
Elasticity and Traction Module	-	N/mm	2.6 to 2.7
Stiffness of Shore A	-	Shore	97 to 99
Stiffness of Shore D	-	Shore	85 to 87

*The above data are for reference only, for each application individual tests are required to determine its effective characteristics and properties.

9. STABILITY AND REACTIVITY

Instability: Avoid temperatures above 220ºC (Combustible gases release).
Hazardous decomposition products: Combustible gases.

10. TOXICOLOGICAL INFORMATION

Eye contact: Mechanical irritation.
Ingestion: There are no known cases of intoxication.

11. ECOLOGICAL INFORMATION

All measures must be taken following the requirements of local environmental bodies.

12. CONSIDERATIONS ON TREATMENT AND DISPOSAL

Residues of products:
Do not dispose of in the public sewage system or with domestic waste. Dispose of properly following local legislation. Recycling is a suitable method for disposal.

13. TRANSPORTATION INFORMATION

Product characteristics do not correspond to official parameters that define dangerous products for transport purposes.

14. OTHER INFORMATION

The information and recommendations presented in this document reflect the best knowledge for the proper handling of the product under normal conditions and do not constitute specifications of the quality of the product and are only intended to provide general guidelines for precautions and safety in the use of the product. Any use of the product that involves use in combination with another product or other processes is the responsibility of the user.

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