

<i>Product name</i>	FISPQ n°: 0024
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1. Product and Company Identification	
■ <i>Product name:</i>	MB/AC cushion gum, as calendered sheets or extruded profiles
■ <i>Internal product identification code:</i>	401321, 401414, 401404, 401606, 401607 and 401626
■ <i>Company name:</i>	BORRACHAS VIPAL S/A
■ <i>Address:</i>	Rua Buarque de Macedo, 365 95320-000 Nova Prata - RS - Brazil
■ <i>CNPJ (registration number)</i>	87870952/0001-44
■ <i>Company telephone number:</i>	(54) 242-1666
■ <i>Emergency telephone number:</i>	(54) 242-1666
■ <i>Fax:</i>	(54) 242-1736
■ <i>E-mail:</i>	vipal@vipal.com.br

2. Ingredient Composition and Information		
■ <i>Preparation:</i>	Calendered sheets and extruded profiles elastomer based, charges, aromatic oil, anti-degradants, and vulcanization agents	
■ <i>Chemical nature:</i>	Hydro carbonates , fatty acid , oxides, amines, amides e esters	
■ <i>Ingredients or impurities which contribute towards danger:</i>		
<i>Chemical or generic name</i>	<i>Concentration or concentration level</i>	<i>Classification and danger labeling</i>
Does not possess ingredients or impurities with sufficient concentrations to contribute to danger.		

3. Identification of dangers	
■ <i>Most important dangers:</i>	Intoxication through inhalation of fumes generated by forced combustion or heating by attrition.
■ <i>Product effects:</i>	
◇ <i>Adverse effects for human health:</i>	In its normal state and for its usage, the laminated rubber compounds are not toxic.
◇ <i>Environmental effects:</i>	Has no adverse environmental effect in its natural state.
◇ <i>Physical and chemical dangers:</i>	May cause lesions through inadequate manipulation.
◇ <i>Specific dangers:</i>	None.
■ <i>Main symptoms:</i>	Body lesions through inadequate manipulation.
■ <i>Chemical product classification:</i>	Product not classified as dangerous.
■ <i>General emergency instructions:</i>	In case of fire, use a foam extinguisher.

4. First aid measures	
■ <i>First aid measures:</i>	
◇ <i>Inhalation:</i>	Take the victim to a ventilated area, if the product undergoes forced combustion, and, if necessary, consult a physician.
◇ <i>Skin contact:</i>	Due to its physical state, there is no possibility of skin or eye contamination or contamination through ingestion.
◇ <i>Eye contact:</i>	
◇ <i>Swallowing:</i>	
■ <i>Actions to be avoided:</i>	Forced combustion of the product
■ <i>Brief description of main symptoms and effects:</i>	There are no significant effects or symptoms for this product.
■ <i>Protection for first aid administrator and/or notes for physician:</i>	If the product undergoes forced combustion, use a semi-facial protector with an active carbon filter.

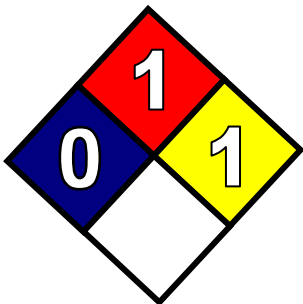
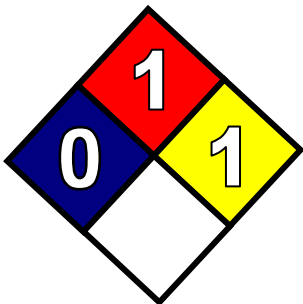
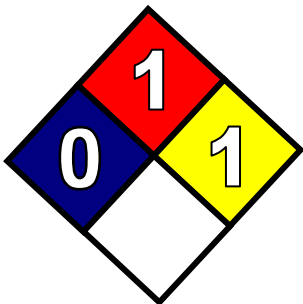
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5. Fire fighting measures	
■ <i>Appropriate means for fire extinguishing:</i>	Use dry chemical powder extinguishers (PQS), chemical foam or CO₂. Use a mist water hose to cool the product and adjacent areas.
■ <i>Non-appropriate means of fire extinguishing:</i>	Use of combustible materials.
■ <i>Specific dangers:</i>	Combustible materials will increase the fire
■ <i>Special methods:</i>	Remove the product from the fire area, if this is possible with no risk.
■ <i>Protection for fire fighters:</i>	Use an individual mask to enter a closed environment or open area with intense smoke.

6. Measures to control spills and leaks	
■ <i>Personal precautions:</i>	
◇ <i>Removal of ignition sources:</i>	Eliminate all ignition sources, avoid sparks and flames, and do not smoke in the risk area. Isolate the spilled area from all ignition sources.
◇ <i>Dust control:</i>	Not applicable
◇ <i>Prevention from inhalation, skin mucous and eye contact :</i>	Not applicable
■ <i>Environmental precautions:</i>	
◇ <i>Alarm system:</i>	Isolate the area affected by the spilled material.
■ <i>Cleaning methods:</i>	
◇ <i>Recovery:</i>	Manual/mechanized collection.
◇ <i>Neutralization:</i>	Not applicable.
◇ <i>Disposal:</i>	Confine if possible for future recovery or disposal.
◇ <i>Secondary dangers prevention:</i>	Not applicable.

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7. Handling and Storage

■ <i>Handling:</i>						
↳ <i>Technical measures:</i>						
- <i>Preventing workers exposure:</i>	Not applicable.					
- <i>Preventing fires and explosions:</i>	Avoid ignition sources.					
- <i>Precautions for safe handling:</i>	Handle with care to avoid body lesions.					
↳ <i>Orientation for safe handling</i>	Provide handling devices and transport aids.					
■ <i>Storage:</i>						
↳ <i>Appropriate technical measures:</i>	On appropriate shelves to have equipment available for piling and loading.					
↳ <i>Storage conditions:</i>						
- <i>Adequate:</i>	The most favorable storage temperature for non-vulcanized rubber products, adhesives and solvents oscillated at approximately +15° C and +25° C. Higher or lower temperatures should be avoided. Glues and solvents cannot be stored at temperatures lower than 0° C (DIN7716) To guarantee the integrity of the adhesives and solvents, these should be stored in a fresh area, covered and airy, sheltered from sunlight, from humidity and from ozone generating sources.					
- <i>To avoid:</i>	Storage near electric motors (ozone generation).					
- <i>Risk signaling</i>	<p>As per norm 704 of the NFPA – National Fire Protection Agency:</p> <table border="1" style="width: 100%;"> <tr> <td style="background-color: #000080; color: white;">Health: 0</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">  </td> </tr> <tr> <td style="background-color: #FF0000; color: white;">Inflammable: 1</td> </tr> <tr> <td style="background-color: #FFFF00; color: black;">Reaction: 1</td> </tr> <tr> <td>Special: -</td> </tr> </table>	Health: 0		Inflammable: 1	Reaction: 1	Special: -
Health: 0						
Inflammable: 1						
Reaction: 1						
Special: -						
- <i>Incompatible products and materials:</i>	Acids, Bases, strong oxidants such as liquid chlorine and concentrated oxygen.					
↳ <i>Safe packaging materials:</i>						
- <i>Recommended:</i>	The manufacturers package.					
- <i>Inadequate</i>	Any other package.					

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8. Exposure control and individual protection										
■ <i>Engineering control measures:</i>										
■ <i>Specific control parameters:</i>										
⇨ <i>Limits of occupational exposure:</i>										
Ingredient	N° CAS	NR - 15				ACGIH				
		LT-MP		VM		TLV – TWA (8h exposure)		TLV - STEL		
		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	Exposure time
As it does not possess concentrations that cause danger, there are no limits for occupational exposure..										
CAS = Chemical Abstracts Service NR 15 = Regulating norm for unhealthy activities and operations – Labor Ministry ACGIH = American Conference of Governmental and Industrial Hygienists LT – MP Tolerated limit – pondered means TLV – TWA = Threshold Limit Value – Time Weighted Average TLV – STEL = Threshold Limit Value – Short Term Exposure Limit										
<i>Biological indicators:</i>										
Ingredient	Toxicological Data									
	Oral DL ₅₀ (mg/kg)	Dermal DL ₅₀	Inhalation CL ₅₀	IDHL						
As it does not possess concentrations that cause danger, there is no biological data. .										
IDHL = Immediately Dangerous to Life or Health DL ₅₀ Dose of a chemical substance that provokes the death of 50% of a group of animals of the same species, when administered in the same way (oral or dermal) (DL= Lethal Dose) CL ₅₀ = Lethal atmospheric concentration of a chemical substance that causes death of 50% of a group animals exposed, for a determined time (CL = Lethal Concentration)										
⇨ <i>Other limits and values:</i> Not applicable.										
■ <i>Recommended monitoring procedures:</i>										
Ingredient	Tolerance limit			Contamination assessment methods						
	In the air	IBMP		In the air	biological					
As it does not possess concentrations that cause danger, monitoring is not applicable										
IBMP = maximum biological index allowed (NR-7 MTb)										
■ <i>Appropriate individual protection equipment.</i>										
⇨ <i>Respiratory protection:</i> Not applicable.										
⇨ <i>Hand protection:</i> Leather gloves.										
⇨ <i>Eye protection:</i> Not applicable.										
⇨ <i>Skin and body protection</i> Cotton overall or apron.										
■ <i>Special precautions:</i> Not applicable.										
■ <i>Hygiene measures:</i> To wash your hands before eating, drinking or smoking are recommended practices.										

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9. Physical-chemical properties	
■ <i>Physical state:</i>	Solid
■ <i>Form:</i>	Plastic, high viscosity paste.
■ <i>Color:</i>	black
■ <i>Odor:</i>	Rubber characteristics
■ <i>pH:</i>	Not relevant
■ <i>Specific temperatures or temperature levels for physical state changes to occur:</i>	
■ <i>Auto ignition temperature:</i>	> 200°C
■ <i>Boiling point:</i>	Not applicable
■ <i>Explosion limits</i>	Not applicable
■ <i>High-low:</i>	
■ <i>Density:</i>	1,09 a 1,21 g/cm³
■ <i>Solubility (indicating solvents):</i>	Soluble in organic solvents

10. Stability and reactivity	
■ <i>Specific conditions:</i>	
◇ <i>Instability:</i>	Stable product under normal conditions of use. Avoid contact with strong oxidizing chemical products. Storage temperatures over 40° C are harmful to the product.
◇ <i>Dangerous reactions:</i>	Reaction with strong oxidizing chemical products (chlorates, peroxides, acids and others) Auto ignition over 200°C
■ <i>Conditions to avoid:</i>	Sources of heat and ignition.
■ <i>Incompatible materials or substances:</i>	Acids, Bases, strong oxidants such as liquid chlorine and concentrated oxygen .
■ <i>Need to add additives or inhibitors:</i>	Stable, thus dispensing additives and inhibitors.
■ <i>Dangerous products resulting from decomposition:</i>	Through combustion: carbon dioxide CO₂, carbon monoxide CO, carbon disulfide, amines, hydrosulphuric gas, aromatic hydro carbonates mono and polycyclics.

11. Toxicological Information	
■ <i>Information according to different types of exposure:</i>	
◇ <i>Acute toxicity:</i>	As it does not possess concentrations that cause danger, the workers health is preserved.
◇ <i>Local effects:</i>	As it does not possess concentrations that cause danger, the workers health is preserved.
◇ <i>Chronic toxicity:</i>	As it does not possess concentrations that cause danger, the workers health is preserved.
■ <i>Substance that have effects:</i>	
◇ <i>Additives:</i>	Unknown.
◇ <i>Potentiation:</i>	Unknown.

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12. Ecological information	
■ <i>Environmental effects, product behavior and impact:</i>	
◇ <i>Persistence /degradability:</i>	Due to its characteristics, product degradability is undetermined ,
◇ <i>Bioaccumulation:</i>	Does not bio-accumulate
◇ <i>Environmental impact:</i>	In its natural state, it has no environmental impact. If the product remains in nature, it may, in case of combustion, contaminate the soil, air and water.

13. Considerations regarding treatment and disposal	
■ <i>Treatment and disposal methods:</i>	
◇ <i>Product:</i>	The product that is not used should be treated as residue and disposed in a covered area, in closed recipients, in good state, identified and delivered for treatment to a location that has been duly licensed by the competent environmental organ.
◇ <i>Product remains:</i>	Remains of the product should be disposed in a covered area, in closed recipients, in good state, identified and delivered for treatment to a location that has been duly licensed by the competent environmental organ.
◇ <i>Used package:</i>	The packages should be disposed in a covered area, in closed recipients, in good state, identified and delivered for treatment to a location that has been duly licensed by the competent environmental organ.

14. Information regarding transportation	
■ <i>National and international regulations:</i>	
◇ <i>Land and River:</i>	Product not classified as dangerous according to Decree 204/97
◇ <i>Maritime:</i>	Product not classified as dangerous according to IMO
◇ <i>Air:</i>	Product not classified as dangerous according to IATA
<i>Specific conditions and measures for transport precaution</i>	
◇ <i>Land, river and maritime</i>	The use of flame lighting near the packages is forbidden .

15. Regulations	
■ <i>Regulations</i>	
◇ <i>Information regarding risks and safety as found on the label:</i>	As the product does not possess dangerous features, this information is not applicable.

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16. Other information	
■ <i>Examples:</i>	
⇨ <i>Special training needs:</i>	The user of this product should be qualified for handling, operation and application of the product.
⇨ <i>Chemical product recommended and possible restrictions:</i>	Recommended for tire retreads.
⇨ <i>Bibliographic references:</i>	<ul style="list-style-type: none"> • Dangerous Products Highway Transport and Handling Protection Manual (Manual de Autoproteção para Manuseio de Transporte Rodoviário de Produtos Perigosos – Juyo/1997 - Mercosul Edition; • NBR 14725 – Chemical products safety information form - FISPQ, July 2001, ABNT: Brazilian Association of Technical Norms ; • Toxicity and Safe Handling of Rubber Chemicals Fourth Edition, 1999, RAPRA Technology Ltda; • http://www.nfpa.org.

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