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	1. Company and product identification		
	Product name:	Vulk Cement, Cement Glue, Pirelli Glue, BSC Glue 100 liters	
	Product identification internal code:	475001, 475002, 475011, 475021, 475202, 475203, 475204, 475205, 475206, 475207, 475208, 475213, 475214, 475215, 475216, 475217, 475218, 475222, 475223, 475224, 475225, 475226, 475246	
	Company name:	BORRACHAS VIPAL S/A	
•	Address:	Rua Buarque de Macedo, 365 95320-000 Nova Prata - RS - Brazil	
•	CNPJ (Legal Entity National Register)	87870952/0001-44	
	Company's phone number:	(54) 3242-1666	
	Emergency number:	(54) 3242-1666	
	Fax:	(54) 3242-1736	
•	E-mail:	vipal@vipal.com.br	

2. Composition and ingredients information						
■ Preparation: Aliphatic/ nafthenic solvent-based adhesiv additives			e, natural rubber, rubber charges and			
■ Chemical	nature:	Ну	drocarbons			
■ Ingredient	s and impuritie	s contributin	g for danger.			
Chemic	al or generic n	ame	Concentration or concentration range Classification and danger labeling		Classification and danger labeling	
Aliphatic hydr	ocarbons		≅ 49% (p/p)		Inflammable liquid - 3	
Nafthenic hyd	rocarbons			≅ 50% (p/p)	Inflammable liquid - 3	
Aromatic hydr	ocarbons			< 1% (p/p)	Inflammable liquid – 3 Toxic substance – 6.1	
o Intern	ational Identi	fication				
Substance	EINECS Nº	CAS Nº	Risk Phrases	Safety Phrases	Indication(s) of Danger and Symbol(s)	
Naphtha	232-443-2	8030-30-6	R45, R65.	S53, S45.	+T	
Hexane	203-777-6	110-54-3	R11, R38, R48/20, R62, R65, R67, R51/53	S2, S9, S16, S29, S33, S36/37, S61, S62.	+F +X → +N	
Cyclohexane	203-806-2	110-82-7	R11, R38, R65, R67, R50/53.	S2, S9, S16, S25, S33, S60, S61, S62.	+F	
Heptane	205-563-8	142-82-5	R11, R38, R50/53, R65, R67.	S2, S9, S16, S29, S33, S60, S61, S62.	+F +X ★** +N	
Benzene	200-753-7	71-43-2	R45, R46, R11, R36/38, R48/23/24/25 , R65.	S53, S45.	+F +T	



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Risk Phrases R11: Highly flammable; R38: Irritating to the skin; R45: May cause cancer; R46: May cause heritable genetic damage; R62: Possible risk of impaired fertility; R65: Harmful may cause lung damage if swallowed

R67: Vapors can cause giddiness and drowsiness.

R36/38: Irritating to eyes and skin;

R48/20: Harmful: danger of serious damage by prolonged exposure through inhalation;

R51/53:Toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment;

R50/53:; Very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment

R48/23/24/25:Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

Safety Phrases

S2: Keep out of reach of children;

S9: Keep container in a well ventilated place;

S16: Keep away from sources of ignition - No smoking;

S29: Do not empty into drains;

S33: Take precautionary measures against static discharges;

S45:In case of accident or if you feel inwell seek medical advice

immediately (show lable where possible);

S53: Avoid exposure. obtain special medical instruction before use;

S60: This material and/or it's container must be disposed of as hazardous waste;

S61: Avoid release to the environment. Refer to special

instructions/Safety data sheet;

S62: If swallowed, do not induce vomiting seek medical advice

immediately and show this conteiner or label;

S36/37: Wear suitable protective clothig and gloves.

+T - Toxic + F - Highly Flammable+Xn - Harmful +N - Danger substance to the environment

	3. Danger identification		
•	■ Major dangers: Liquid		Liquid and its vapors are inflammable. Noxious.
	Pro	oduct effects:	
	⇨	Adverse effects to human health:	Vapors that are inhaled are irritating and CNS-depressant.
	♦	Effects on environment.	Product's air-borne vapors make the environment explosive and toxic. The product and water resulting from fire fighting are harmful to flora and fauna. Part of the product spilled in the water will evaporate. The product spilled on the soil may partly evaporate and partly be lixiviated and percolate, contaminating the water table, which therefore limits its use. Biodegradation speed will depend on weather conditions, dilution, and existing microorganisms.
	≎	Physical and chemical dangers:	Liquid and its vapors are very inflammable upon sparks or flames.
	\Diamond	Specific dangers:	Noxious, inflammable product.
	■ Major symptoms: unconsciousness to coma and death upon severer exposures.		
■ Chemical product classification: Inflammable liquid.		Inflammable liquid.	
•	Emergency overview: Upon leakage: Avoid all sources of ignition; immediately isolate the area. Upon fire: Use sprinklers with dry chemical powder, chemical foam or CO ₂ .		

4. First-aid measures		
■ First-aid measures:		
Remove victims to fresh air and keep them quiet and warm. Perform ar respiration, when necessary. Refer them to a physician.		
Skin contact: Take off contaminated clothes. Do not rub the affected parts. Was abundant water and soap. Refer them to a physician.		
⇒ Eye contact: Wash with abundant water. Refer them to a physician.		
⇒ Ingestion: If victims are conscious, make them drink water. Refer them to a physici		
■ Actions that should be avoided:	Wash skin using solvent. Provoke vomit, unless it has been recently ingested in great volume and the patient is not in coma.	
Short description of major symptoms and effects: Airway, skin, eye and mucosa irritation and discomfort due to smell.		



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•	■ First-aid provider protection	First-aid providers should use all the individual-protection equipment that is recommended in this sheet, according to the existing scenario. Central Nervous
	and/or notes for physicians:	System (CNS) depressor

5. Fire-fighting measures		
■ Appropriate extinction means:	Use chemical-powder (PQS), chemical-foam, or CO2 sprinkles. Use water-mist spout to cool down adjacencies.	
Inappropriate appropriate extinction means:	Water on flames.	
Specific dangers:	Water on flames may enhance fire intensity, as well as vapors may be displaced and reach an ignition source, which would cause flames to retrocede.	
■ Special methods:	Removal of containers from the area on fire, if this is possible without any risks.	
■ Fire-fighters protection:	Use autonomic mask to enter in closed environment.	

	6. Control measures for spilling or leakage		
■ Pe	Personal precautions:		
¢	Removal de ignition sources:	Eliminate all ignition sources, prevent from sparks and flames, and do not smoke in the risk area. Isolate all leakages of ignition sources.	
⇨	Dust control:	Not applicable, because it is liquid.	
❖	Inhalation and mucosa-, eyes- and skin-contact prevention :	Use impermeable boots, clothes and gloves; airtight goggles for chemical products and adequate respiratory protection.	
■ Pr	recautions regarding the envir	onment:	
Ŷ	Alarm system:	Surround the area with restraint barriers or trenches. Hinder the leakage, if this is possible without any risks. Do not put the spilled material on the way of any public drainage systems. Absorb using earth, or any other absorbent material. Prevent from contaminating water streams and springs. Water entrainment should take into account posterior treatment of the contaminated water. Avoid performing this entrainment.	
■ CI	leaning methods:		
₿	Recovery:	Collect the product in a duly identified, well-sealed emergency container. Keep recovered product for posterior disposal.	
₽	Neutralization:	Not necessary; this product has pH almost neutral.	
÷	Disposal:	Do not dispose of it in regular garbage cans. Do not dispose of it in sewage systems or water streams. Confine, when possible, for posterior recovery or disposal. Final disposal shall be accompanied by an expert, and pursuant to the environmental legislation in force in the community.	
♦	Secondary danger prevention	Inappropriate disposal may affect soil, and by percolation, degrade water quality in the water table.	

7. Handling and storage		
■ Handling:		
⇒ Technical measures:		
- Workers' exposure prevention:	Keep the work setting ventilated to avoid higher vapor concentration than that tolerable. Provide workers with skin and eye protection to prevent from direct contact with the product.	
- Fire and explosion prevention:	Keep the work setting ventilated to keep vapor concentration out of explosiveness limits. Use anti-sparking tools and cover system's conducting elements that are in contact with the product with earth to avoid ignition.	
- Precautions for safe handling:	Keep the work setting ventilated to prevent from vapor formation higher than tolerated and to avoid contamination due to contact with other products.	
Instructions for safe handling:	Provide local exhausting ventilation, whenever the processes require it. Avoid high room temperatures. Avoid contact with other products.	
■ Storage:		



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₽	Appropriate technical measures:	Keep the product in the original container.
\Rightarrow	Storage conditions:	
	- Appropriate:	In a well-ventilated place at room temperature; away from oxidizing agents ignition and heat sources to avoid degradation and fire.
	- To be avoided:	Heat, sparks and high shelves.
		Pursuant to NFPA 704 rule – National Fire Protection Agency:
		Health: 1
	- Risk signaling:	Inflammability: 3
		Reactivity: 1
		Special: -
		Identify using inflammable symbology
		LÍQUIDO INFLAMÁVEL 3
	 Incompatible products and materials: 	Strong oxidants, such as liquid chlorine and concentrated oxygen.
₽	Safe package materials	S
	- Recommended:	The manufacturer's package.
	- Inappropriate:	Any other packages.

			8. Indiv	idual exp	osure and	d protection	n control			
■ Engineerii	ng control me		warned to	olerance	limits. At		ngs, when			its under the sition yourself
■ Specific co	ontrol parame	eters:								
	for occupation	onal expo	sure:							
			NR - 15			ACGIH				
Ingredient	# CAS	TL	-MP	V	M		- TWA exposure)		TLV - ST	EL
		ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	exposure period
Oil naphtha	8030-30-6	N.F.	N.F.	N.F.	N.F.	100	400	300	1.200	30 min
Hexane	110-54-3	N.F.	N.F.	N.F.	N.F.	500	1.800	1.500	5.400	30 min



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Cyclohexane	110-82-7	235	820	293	1.025	300	1.050	900	3.150	30 min
Heptane	142-82-5	400	1.640	500	1.804	400	1.600	500	2.000	15 min
Benzene	71-43-2	1 ¹	3,19 ¹	N.F.	N.F.	10	32	50	160	10 min

Oil naphtha is a mixture of paraffin, olefin, nafthenic and aromatic hydrocarbons mainly consisting of 6 to 8 carbon

CAS = Chemical Abstracts Service

NR 15 = Regulating rule for unhealthy activities and operations

ACGIH = American Conference of Governmental and Industrial Hygienists

 $TL - MP = Tolerance \ limit - weighted \ average$

TLV – TWA = Threshold Limit Value – Time Weighted Average
TLV – STEL = Threshold Limit Value – Short Term Exposure Limit

N.F. = Not found

= VRT-MPT, air-borne benzene concentration weighted average for an 8-hour period of daily work (NR-15 Annex 13-A, item 6.2)

Biologic indicators:

Biologic malcators.							
	Toxicologic data						
Ingredient	Oral DL ₅₀ (mg/kg)	Dermal Inhalative DL ₅₀ CL ₅₀		IDHL			
Oil naphtha	N.F.	N.F.	61mg/m³, 4h	1,000ppm			
Hexane	28.710, mice	N.F.	5,000ppm, 10min, human CNS	5,000ppm			
Cyclohexane	N.F.	N.F.	N.F.	1,300ppm			
Heptane	N.F.	N.F.	N.F.	750ppm			
Benzene	930-female rat 50-man	N.F.	9980ppm, mouse	3,000mg/m³			

IDHL = Immediately Dangerous to Life or Health

DL₅₀ = The dose of a chemical substance that kills 50% of a group of animals from the same species when administered through the same via (oral or dermal) (DL= Lethal Dose)

CL₅₀ = Lethal atmospheric concentration of a chemical substance that kills 50% of a group of exposed animals within a given period of time (CL = Lethal Concentration)

CNS = Central Nervous System

N.F. = Not found

Other limits and Hexane: TLV-TWA for skin 50ppm values: Benzene: TLV-TWA for skin 0.5ppm

Recommended monitoring procedures:						
Ingradiant	Tolera	nce limit	Methods to assess contamination			
Ingredient	no air	no air IBMP no air		biologic		
Hexane	500ppm 5mg/g creat. 235ppm N.F.		Monitor 3500 or 3520 by 3M;			
Cyclohexane			Colorimetric Detector Tube	Urinary dosage of 2,5- hexanedione		
Heptane	400ppm	N.F.	MSA/Auer 215409			
Benzene	1ppm	N.F.	Monitor 3500 or 3520 by 3M; Colorimetric Detector Tube MSA/Auer 215200 and 215496	Exhaled benzene Phenyl mercapturic acid Àcido trans-transmucônico Benzene in urine Reticulocytes Platelet count		

IBMP = maximum biologic rate permitted (NR-7 MTb)

N.F. = Not found



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	_		
•	Αp	propriate individual protectio	n equipment.
	₽	Respiratory protection:	Ventilation to keep exposure below TL (tolerance limit). Respirator with chemical filter for organic vapors under high concentrations, and respirator with filtrating semi facial part under concentrations up to TL. In cases of very high-proportion damages in confined settings without ventilation, autonomic respiration equipment or sent-air set.
	⇨	Hands protection:	Gloves for organic solvents whenever there is risk of direct contact with the product.
	\Rightarrow	Eyes protection:	Goggles or facial protection whenever there is the risk of sprinkles.
	⇨	Skin and body protection:	Impermeable apron or overall whenever there is direct contact with the product.
•	Special precautions:		Avoid massive exposure to vapors. Chemical products should be handled with by qualified, skilled people. In places where chemical products are manipulated, workers' exposure should be monitored, as described in the PPRA (Environmental Risk Prevention Program).
	Hygiene-related measures:		Clothes, gloves, shoes, EPIs should be cleaned before being used again. Always use for personal hygiene: water, soap and cleansing creams. Wash hands before using the bathroom, eating or drinking. Do not eat where you work <u>Do not use gasoline, diesel oil</u> or any other petroleum-derived solvent for personal hygiene. Good operational and industrial hygiene procedures help reduce risks at handling with chemical products.

9. Physicochemical properties					
physical state:	Liquid				
■ Form:	viscous				
■ Color.	Black				
■ Smell:	of naphtha				
■ <i>pH</i> :	Not significant				
■ Specific temperatures or tempe	rature ranges at which changes in the physical state occur.				
⇒ Distillation range:	52℃ to 128℃ (at 760 mmHg) (1)				
■ Decomposition temperature:	> 200℃				
■ Point of glow:	-7℃ (¹)				



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Explosiveness limitssuperior - inferior.	6.0 – 1.0% (1)			
■ Vapor pressure:	220mm Hg to 20℃ (¹)			
■ Vapor density:	2.8 (air = 1)			
■ Density:	0.67 to 0.75 (water = 1)			
■ Solubility (indicate solvent(s)):	Soluble in organic solvents			
■ Evaporation rate:	320 (butyl acetate = 100) (1)			
■ Viscosity Brookfield:	Up to 600 cP			
1) – Physicochemical data of the solvent used to prepare cola bicicleta [bicycle glue] CB-01.				

	10. Stability and reactivity					
Specific conditions:						
	Stable product under normal conditions of use. Avoid contact with strong oxidant chemical products. Storage temperatures higher than 40℃ are harmful to the product.					
Dangerous reactions:	Reaction with strong oxidizing chemical products (chlorates, peroxides, acids and others). Self-ignition over 280℃					
Conditions to be avoided:	Heat and ignition sources.					
Incompatible materials or substances:	Strong oxidants such as peroxides, liquid chlorine and concentrated oxygen					
Need for adding additives and inhibitors:	Stable, therefore it does not need additives and inhibitors.					
Dangerous products from decomposition:	By combustion: carbon dioxide CO ₂ , carbon monoxide CO, and toxic gases.					

	11. Toxicologic information				
■ Information according to the diff	Information according to the different exposure manners:				
⇒ Acute toxicity:	Inhalation: When inhaled, vapors are CNS-irritating and -depressant, and their effects range from headache, vertigo, nausea, dizziness, confusion and lack of coordination, unconsciousness, and lung edema to coma and death at severe exposures. Skin contact: Skin contact causes dryness, and may cause irritation and dermatitis. Eye contact: vapors cause eye irritation. Ingestion: At vomiting, the major risks are chemical pneumonitis, lung edema and hemorrhage resulting from the aspiration through airway.				
	Inhalation: it may cause superior airway irritation with wet cough (mucous secretion). Skin contact: irritation and dryness. Eye contact: irritation with tearing and congestion. Ingestion: it may cause severe gastric lesions.				
Sensitization:	In individuals with allergic rhinitis it makes nasal mucosa sensitive.				
Chronic toxicity:	Inhalation: it may cause headache, vertigo, nausea, dizziness etc. Skin contact: it may produce dryness dermatitis. Eye contact: vapors may produce conjunctivitis.				
Toxicologically synergic effects:	Unknown.				
⇒ Specific effects:	Non-carcinogenic, non-mutagenic, non-teratogenic, non-embryotoxic product.				
■ Substances causing effects:					
⇒ Additives:	Unknown.				
⇒ Potentiation:	Unknown.				



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		In containing discontinuous in the state of the forms of multiple containing and an extension of the state of
⇨	Mobility:	In water medium: immiscible, it floats in the form of pellicle, solvents evaporate over time; inert, solid residues also float, and may be collected. In soil medium: solvents percolate and may reach water tables; inert, solid residues remain on the surface and may be collected. In atmosphere medium: solvents evaporate.
≎	Persistence/degradability:	Water solvents will go to the atmosphere, where they dissipate. Percolated solvents in the soil, as petroleum fraction, will remain unaltered for undetermined time.
\Box	Bioaccumulation:	It does not bioaccumulate
≎	Expected behavior.	Spilled or applied, solvents will tend to evaporate, and will dissipate in the atmosphere, preferably near the soil, due to its density, which is higher than that of the air. It will be left, for the environment, the solid part of the adhesive - with inert effect
≎	Impact on environment.	If the product is spilled in the water, it will float, and its solvents will damage water life until they evaporate. Its solvents, once they are distributed on the soil by percolation, may damage flora, fauna and water tables. In the atmosphere, solvent vapors may contribute for the greenhouse effect.
❖	Ecotoxicity:	 Air: solvent vapors are harmful for the environment. Water: may provide water with unwanted qualities, thus impairing its use. Benzene: as a less probable component of this product, its maximum limit for waters Class 1, 2 and 3 established at 0,01 mg/l; floating materials: established as being virtually absent in waters Class 1, 2, 3, 4, 5, 6, 7 and 8; oils and Greases: established as being virtually absent in waters Class 1, 2, 3, 5 and 7, and iridescences are tolerated for waters Class 4, 6 and 8; For special class water, there is no tolerance for any kind of contaminating agents. Source: Resolution CONAMA # 20, dated from June 18, 1986. Soil: Its solvents may affect the soil, and, by percolation, contaminate waters in the water table.

	13. Considerations on treatment and disposal								
■ Treat	■ Treatment and disposal methods:								
⇒ F	Product that is not used for its adhesive function, should be leaked from the container, and its solvents should be evaporated in ventilated setting. Solid residues should be kept in a covered place, in sealed containers, in good conditions, identified, and referred to treatment in a site duly licensed by the competent environmental agency.						Solid good by the		
□ F	Product's remainders should be kept in a covered place, in sealed containers, i good conditions, identified, and referred to treatment in a site duly licensed by the competent environmental agency.								
⇒ (Do not reuse containers. Empty packages should be kept in a covered place, in sealed containers, in good conditions, identified and referred to treatment in a site duly licensed by the competent environmental agency.								
		14.	Transportat	tion informat	ion				
■ Natio	nal and international regulat	ions:							
⇒ L	and and river transport.								
							In em	ergency	cases
Number ONU	Appropriate name for shipping	Risk class		Package group	Special provisions	Exempt quantity	EPI	EmS Guide	Kit
1133	ADHESIVES, containing inflammable liquid	3	33	II	102	333 kg	Α	26	1
\$ 5	⇒ Sea transport:								
Number ONU			Risk Number	Package group	Special provisions	Exempt quantity	Eme	rgency G	uide
1133	1133 ADHESIVES, containing inflammable liquid		33	II	944	1 liter		F-E, S-D	
\Box	Air transport:								



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	Number ONU	1133		
	Adhesives, containing inflammable liquid			
	3			
	Danger labeling	Inflammable liquid		
	Package group	II		
Maximum quantity per in	nternal package on passenger/cargo airplanes	0,5 liter (Y305), IP3A		
Maximum quantity per e	kternal package on passenger/cargo airplanes	1 liter, external package 4G		
Maximum quantity per in	nternal package on passenger/cargo airplanes	5 liter (305), IP3A		
Maximum quantity per e	kternal package on passenger/cargo airplanes	5 liter, external package 4G		
Maximum qu	antity per internal package on cargo airplanes	10 liter (307), IP3A		
Maximum qu	antity per external package on cargo airplanes	60 liter, external package 4G		
Practical Guid	e for Emergency Response(ERG Code-ICAO)	3L		
Precaution measures and specific c	onditions for transportation Smoking is forbidden near packages duri			
■ Additional regulations:	ignition of products or their gases or vapor For quantities above 333 kg of this product mandatory: inflammable risk label (lozeng (rectangle - figure below) externally fixed emergencies; trained driver; product's encompetent environmental agency for the It is prohibited to carry passengers in the EPI kits (Equipamento de Proteção Indivi	ct, transported in a vehicle, it is ge - figure below) and safety sign on the vehicle; EPI and equipment for nergency sheet; license given by the transportation of dangerous products. vehicle without having the respective		

	15. Regulations				
■ Re	Regulations:				
₽	R - Phrases	R11 – Highly flammable			
Ŷ	S - Phrases	S9 – Keep container in a well-ventilated place. S16 – Keep away from sources of ignition – No Smoking. S23 – Do not breathe vapour. S24 – Avoid contact with skin. S33 – Take precautionary measures against static discharges.			
₽	Information about risks and safety, as described in the label:	 1 - Use it with appropriate ventilation and get protected by using a mask with organic vapor filter. 2 - Avoid repeated, prolonged contact with skin. Use impermeable gloves. 3 - It should not be ingested; if this occurs, do not provoke vomiting. If the person is conscious, administer water or milk. Refer to specialized medical assistance and show the package. 4 - Use goggles to protect from sprinkles. 			



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5 – Keep it away from children and anii 6 – Inflammable product; always keep 7 - Package should not be incinerated,	it well-sealed and away from heat sources.

Ventilated, dry places, away from heat or ignition (sparks) sources.

STORAGĚ:

16. Additional information					
Examples:					
⇒ Special	needs for training:	The user should be warned to keep the place of utilization well ventilated.			
potentia	il rectrictions to the I	Recommended for gluing tire repairs and for tires retreading by hot cure in thermopress or autoclave.			
⇔ Referen	oces:	 Manual de Autoproteção para Manuseio e Transporte Rodoviário de Produtos Perigosos [Self-Protection Manual for Handling and Road Transport of Dangerous Products] – July/1997 – Mercosul Edition; International Maritime Dangerous Goods Code – IMO - 2002 Edition; Dangerous Goods Regulations - IATA – 44th Edition - 2003; Toxicity and Safe Handling of Rubber Chemicals Fourth Edition, 1999, RAPRA Technology Ltda; Toxicologia Industrial [Industrial Toxicology], 1997, Roberto Charles Góes; Occupational Medicine and Health Guidelines - Collected Writings, 40th Edition, 1998; Internet: http://www.osha.gov; http://www.cagih.org/home.htm; http://www.cas.org; http://www.cas.org; http://ptcl.chem.ox.ac.uk/MSDS/mels.html; http://www.osha-slc.gov/dts/Chemicalsampling/toc/toc Chemsamp.html; http://www.atsdr.cdc.gov/toxprofiles/tp3.html; http://www.nfpa.org NBR 14725 - Chemical product safety information sheet - FISPQ, July 2001, ABNT: Associação Brasileira de Normas Técnicas [Brazilian Association of Technical Rules]; 			

Information and recommendations contained in this publication were collected from apt sources. Data contained in this information sheet refer to a specific product.

Borrachas Vipal S.A., through this information sheet, does not intend to give absolute, definitive information about this product and its risks; rather, it intends to provide subsidies, by giving known information, to its employees and clients for their individual protection, the maintenance of occupational continuity, and environment preservation.