KRA587_A2

Safety Data Sheet

INTERBOND 998PB VERDE PB

Bulk Sales Reference No.:	KRA587
SDS Revision Date:	02/18/2016
SDS Revision Number:	A2

International.

1. Identification of the preparation and company

1.1. Product identifier

Product Identity	INTERBOND 998PB VERDE PB
Bulk Sales Reference Number	KRA587

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended Use	See Technical Data Sheet.
Application Method	See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name	International Paint Ltda **ARGENTINA:** Ruta Panamericana Km 37,5 Garin, Buenos Aires PO Box: B1606DQE **AKZONOBEL CHILE:** Calle Limache 3363 Local 3, El Salto Viña del Mar, Chile C.P. 2520642 - Rut 76.048140-8 **BRAZIL:** Avenida Paiva, 999 - Neves Sao Goncalo, RJ 24426-148 Brazil
Emergency	
Suatrans Cotec	0800 7071 767 or 0800 7077 022 or 0800 172020 or 55*2*7500 (24 hr)
International Paint	**ARGENTINA:** +54 3327 44 7777 **CHILE:** +56 32 267 1174 **BRAZIL:** +55 21 2199-7100
Poison Control Center (Brazil)	0800-0148110 or +55 11 3069-8800
Medical Service (Argentina)	+54 3327 44 7144 or +54 3327 44 7282
Firefighter/HSE (Argentina)	+54 3327 44 7123
Customer Service	**ARGENTINA:** +54 3327 44 7777 Fax: +54 3327 44 7738 **CHILE:** +56 32 267 1174 Fax: +56 32 263 1496 **BRAZIL:** +55 21 2199-7100 Fax: +55 21 2199-7124

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Skin Irrit. 3;H316

Eye Irrit. 2;H319

Skin Sens. 1;H317

Aquatic Chronic 3;H412

2.2. Label elements

Using the Toxicity Data listed in section 11 & 12 the product is labelled as follows.

Warning.

H227 Combustible liquid.

H316 Causes mild skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P260 Do not breathe mist / vapours / spray.

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

P262 Do not get in eyes, on skin, or on clothing.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+352 IF ON SKIN: Wash with soap and water.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P331 Do NOT induce vomiting.

P332+313 If skin irritation occurs: Get medical advice/attention.

P333 If skin irritation or a rash occurs:.

P337 If eye irritation persists:.

P363 Wash contaminated clothing before reuse.

P370+376 In case of fire: Stop leak if safe to do so.

P403+235 Store in a well ventilated place. Keep cool.

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %
Reaction of epichlorohydrin and bisphenol A CAS Number: Proprietary	50 - 75
Talc CAS Number: 0014807-96-6	25 - 50
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. CAS Number: 0068609-97-2	1.0 - 10
Titanium dioxide CAS Number: 0013463-67-7	1.0 - 10
Polymer of epoxy resin and bisphenol A CAS Number: 0025036-25-3	1.0 - 10
OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(O CAS Number: 0017557-23-2	1.0 - 10

4. First aid measures

4.1. Description of first aid measures

General	Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean or destroy contaminated shoes.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Eyes	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin	In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately.

Ingestion	If swallowed, immediately contact Poison Control Center at 1-800-854-6813. DO NOT induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Overview	NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Avoid contact with eyes, skin and clothing.
Inhalation	Harmful if inhaled. Causes nose and throat irritation. Vapors may affect the brain or nervous system causing dizziness, headache or nausea.
Eyes	Causes severe eye irritation. Avoid contact with eyes.
Skin	Causes skin irritation. May cause allergic skin reaction. May be harmful if absorbed through the skin.
Ingestion	Harmful if swallowed. May cause abdominal pain, nausea, vomiting, diarrhea, or drowsiness.
Chronic effects	Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 2 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.

5. Fire-fighting measures

5.1. Extinguishing media

Appropriate Extinguishing Methods	Water in form of fog, Co2, foam or dry chemical dust.
Inappropriate Extinguishing Methods	Direct water spray into fire
Specific Hazards	Can liberate toxic fumes or gases during the burning. For decomposition see section 10.

5.2. Special hazards arising from the substance or mixture

Special Methods	Evacuate the area and to fight the fire at a safe distance upwind. Use water in fog to cool containers near the fire. Keep runoff from entering sewer. Extinguishing water must be disposed according to local legislation.

5.3. Advice for fire-fighters

Firefighter Protection	In fire case, to use personal respiratory device and suits for protection.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	ELIMINATE ALL IGNITION SOURCES (no smoking, flares, sparks or flames in immediate area). Use only non-sparking equipment to handle spilled material and absorbent. Do not touch or walk through spilled material.
Public Safety	Call Suatrans Cotec 0800 7071 767 or 0800 7077 022 or 0800 17 2020 or 55*2*7500 (24 hr) for emergency response. Isolate spill or leak area immediately for at least 25 to 50 meters in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. LARGE SPILLS: Consider initial downwind evacuation for at least 300 meters. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use non-sparking tools to collect absorbed material.

6.2. Environmental precautions

Environmental Precations	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use non-sparking tools to collect absorbed material.

6.3. Methods and material for containment and cleaning up

Clean Up Method	Cover with sand or other non-cumbustible material. Transfer absorbed material with a non-sparking tool.

7. Handling and storage

7.1. Precautions for safe handling

Handle the packages with care in order to avoid damage and spillage.
Be aware of the precautions referred to on the label.
Avoid contact with the eyes and the skin. Avoid swallowing of vapor and the pulverizations. Be aware of the precautions referred to on the label. Use personal protection equipment according to the section 8.
No smoking, drinking or eating in the application areas.
All the ignition sources (hot surfaces, sparks, unprotected flames, etc.) must be excluded from the areas of manufacturing and application. The storage areas, the preparation and the application must be well ventilated.

The product can be carried electrostatically. Always use grounding cables when transferring solvents or product. The operators must use adequate outfits which shall not develop static current. (at least 60% of natural fiber) and anti-static shoes.
Solvents based products: The solvent vapors are heavier than the air and can concentrate on the floor and explosive mixtures may be formed with the air .
Water based products: It does not require special cares for not being inflammable or explosive. Use only the indicated personal protection equipments.

7.2. Conditions for safe storage, including any incompatibilities

Store between 40-100F (4-38C).

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0013463-67-7	Titanium dioxide	ACGIH	10 mg/m3 TWA
		Brazil	
0014807-96-6	Talc	ACGIH	2 mg/m3 TWA (particulate matter containing no asbestos and
		Brazil	
0017557-23-2	OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(O	ACGIH	
		Brazil	
0025036-25-3	Polymer of epoxy resin and bisphenol A	ACGIH	
		Brazil	
Proprietary	Reaction of epichlorohydrin and bisphenol A	ACGIH	
		Brazil	
0068609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	ACGIH	
		Brazil	

Health Data

CAS No.	Ingredient	Source	Value
0013463-67-7	Titanium dioxide	NIOSH	Lung tumors in animals
0014807-96-6	Talc	NIOSH	(containing asbestos); Fibrotic pneumoconiosis; (containing no asbestos); Nonmalignant respiratory effects
0017557-23-2	OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(O	NIOSH	
0025036-25-3	Polymer of epoxy resin and bisphenol A	NIOSH	
Proprietary	Reaction of epichlorohydrin and bisphenol A	NIOSH	
0068609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	NIOSH	

Carcinogen Data

CAS No.	Ingredient	Source	Value
0013463-67-7	Titanium dioxide	OSHA	Select Carcinogen: Yes
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: Yes; Group 3: No; Group 4: No;
0014807-96-6	Talc	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0017557-23-2	OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(O	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0025036-25-3	Polymer of epoxy resin and bisphenol A	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No

		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
Proprietary	Reaction of epichlorohydrin and bisphenol A	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0068609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory Protection	Select equipment to provide protection from the ingredients listed in Section 3 of this document. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust, vapor, or mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.
Eye and face protection	Avoid contact with eyes. Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 8 of this document. Depending on the site-specific conditions of use, safety glasses, chemical goggles, and/or head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.
Skin and body protection	Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 8 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.
Engineering Controls	Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.
Special Precations	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, using toilet facilities, etc. Promptly remove soiled clothing and wash clothing thoroughly before reuse. Shower after work using plenty of soap and water.

9. Physical and chemical properties

Appearance	Green Liquid
Odour threshold	Not Measured
pH	No Established Limit
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	100 (°C) 212 (°F)
Flash Point	82 (°C) 180 (°F)
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 1
	Upper Explosive Limit: No Established Limit
Vapour pressure (Pa)	Not Measured
Vapor Density	Heavier than air
Specific Gravity	1.41
Solubility in Water	Not Measured
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	No Established Limit Not Measured
VOC %	Refer to the Technical Data Sheet or label where information is available.

10. Stability and reactivity

10.1. Reactivity

Keep away from alkaline or strong strong acid to prevent probable exothermal reactions.

10.2. Chemical stability

This product is stable

10.3. Possibility of hazardous reactions

Dangerous Polymerization will not occur. Heat and vapors in excess can be generated when inproperly used.

10.4. Conditions to avoid

Keep away from alkaline or strong strong acid to prevent probable exothermal reactions.
Strong oxidizing agents

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Can liberate toxic vapors in the welding process. The vapors can produce Dioxide and Monoxide of Carbon.

11. Toxicological information

Acute toxicity

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. No additional information provided for this product. See Sections 3 and 8 for chemical specific data.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr
Reaction of epichlorohydrin and bisphenol A - (Proprietary)	No data available	No data available	No data available	No data available
Talc - (14807-96-6)	No data available	No data available	No data available	No data available
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. - (68609-97-2)	No data available	No data available	No data available	No data available
Titanium dioxide - (13463-67-7)	10,000.00, Rat - Category: NA	10,000.00, Rabbit - Category: NA	No data available	6.82, Rat - Category: NA
Polymer of epoxy resin and bisphenol A - (25036-25-3)	No data available	No data available	No data available	No data available
OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(O - (17557-23-2)	4,500.00, Rat - Category: 5	No data available	No data available	No data available

Item	Category	Hazard
Acute Toxicity (mouth)	Not Classified	Not Applicable
Acute Toxicity (skin)	Not Classified	Not Applicable
Acute Toxicity (inhalation)	Not Classified	Not Applicable
Skin corrosion/irritation	3	Causes mild skin irritation.
Eye damage/irritation	2	Causes serious eye irritation.
Sensitization (respiratory)		Not Applicable
Sensitization (skin)	1	May cause an allergic skin reaction.
Germ toxicity	Not Classified	Not Applicable
Carcinogenicity		Not Applicable
Reproductive Toxicity		Not Applicable
Specific target organ systemic toxicity (single exposure)		Not Applicable
Specific target organ systemic Toxicity (repeated exposure)		Not Applicable
Aspiration hazard	Not Classified	Not Applicable

12. Ecological information

12.1. Toxicity

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 199/45/CE and is classified according to the same as for the environment. For details, see sections 8 and 11. There are no data available on the product. Avoid contamination of drains or watercourses

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Reaction of epichlorohydrin and bisphenol A - (Proprietary)	Not Available	Not Available	0.00 (hr),
Talc - (14807-96-6)	Not Available	Not Available	Not Available
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. - (68609-97-2)	Not Available	Not Available	Not Available
Titanium dioxide - (13463-67-7)	1,000.00, Fundulus heteroclitus	5.50, Daphnia magna	5.83 (72 hr), Pseudokirchneriella subcapitata
Polymer of epoxy resin and bisphenol A - (25036-25-3)	Not Available	Not Available	Not Available
OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL)BIS(O - (17557-23-2)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available

13. Disposal considerations

13.1. Waste treatment methods

General	Note: Disposal must be in accordance with the federal, state and local regulations.
Method of treatment and disposal	Product: The treatment and the disposal of the product must in accordance the local legislation. Remaining portions of the product: Residues that will not be used must be discarded in accordance the local legislation. Used packing: Do not reuse the packing. Recycle if appropriate or discard in accordance the local legislation.

14. Transport information

14.1. UN number	UN3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

Domestic Surface Transportation

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard Class	9
UN / NA Number	UN3082
Packaging Group	III
CERCLA/DOT RQ	1089 gal. / 12821 lbs.
Risk Number	90

IMO / IMDG (Ocean Transportation)

IMDG Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG Hazard Class	9 - Miscellaneous dangerous substance and articles
UN / NA Number	UN3082
IMDG Packing Group	III
System Reference Code	265
EMS	F-A,S-F

Marine Pollutant No

Air Transport (ICAO-ITI / IATA-DGR)

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard Class	9
UN / NA Number	UN3082
Packaging Group	III

14.4. Packing group III

14.5. Environmental hazards

IMDG Marine Pollutant: No

14.6. Special precautions for user

Not Applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

15. Regulatory information

Regulatory Overview	Decreto 2.657, from 3/07/98, regarding the Safety in the Utilization of Chemical Products at Work. Act # 96.044 of 18/05/88. Regulations of Road Transport of Dangerous Products. Decreto 1.797, of 25/01/1996, Bill of Hazardous Products in the Mercosul range. Resolution ANTT # 420, of 12/02/2004: complementary instructions to the Regulation of Road Transport of Hazardous Products. Decreto 3214 of MTE NBR 7500: Identification for the road transport, the handling, the moving and the storage of products. NBR 7501: Terminology Transport of Hazardous Products. NBR 7503: Road transport of hazardous products emergency form and envelope Features, dimensions and filling. NBR 9735: Set of equipments for Emergency in the Road Transport of Hazardous Products Procedures. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.
WHMIS Classification	B3 D2B

16. Other information

The information contained in this Material Safety Data Sheet (MSDS) has the purpose of being a description of the product safety requirements, which were obtained from the literature and current legislation specific about raw materials/ingredients. Thus, the accuracy of the data contained herein is not, expressly or implicitly, assured by the Manufacturer. The product shall not be used for purposes other than the ones specified by the Manufacturer. The user is always liable for taking all required measures to comply with the provisions in this MSDS, as well as with the requirements expressed in the regulations and effective legislation.

Bibliographic references:

- Council Directive 67/548/EEC of June 27, 1967.
- Work and Job department clause # 3.214 of June 08, 1978.
- ABNT NBR 14725 (parts I,II,III and IV) Chemical products Information on safety, health and environment.

Specific use: product meant only for professional use, check the product data sheet.

CAS: Chemical Abstract Service register number It s a register number indicated by the American Chemical Society, which identifies only a specific chemical component.

KRA587_A2

End of Document