



Security Data Sheet (HDS)

Date of elaboration: 2003 August
 Revision number: 5
 Review date: October 2021

Warning word

DANGER

Pictogram section



Sheet 1 of 3

duretán

SECTION I Identification of the dangerous chemical substance or mix and supplier or manufacturer

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| 1) Name of the dangerous chemical substance or mixture: <i>duretán</i> | Use Restrictions: <i>Sealant should not be applied in areas completely closed, since it requires relative humidity for vulcanization.</i> |
| 2) Another ways of identification: <i>polyurethane sealant</i> | |
| 3) Use recommendation: <i>This product is used to perform indoor and outdoor sealing (see technical sheet).</i> | 5) Emergency number: <i>(442) 217 3232 (442) 217 3839</i> |
| 4) Nombre del fabricante o distribuidor: <i>Productos Pennsylvania, S.A. de C.V.</i> | |
| b) Address: <i>Camino a San José No. 1, Fracc. San Pablo Tecnológico Querétaro, Qro. C.P. 76150</i> | |

SECTION II Hazard identification

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| 1) Clasification of dangerous chemical substances. <i>Respiratory sensitizant. Category 1</i> <i>Skin sensitizant. Category 2</i> <i>Carcinogenicity. Category 2</i> | <i>Repeated exposure toxicity. Category 1</i> <i>Toxicidad acuatica aguda. Catgeoria 3</i> |
| 2) Signaling elements: <i>H316 Causes mild skin irritation.</i> <i>H317 May cause a skin allergic reaction.</i> <i>H228 Flammable Solid</i> <i>H334 May cause allergy o asthma symptoms or breathing difficulties if inhaled</i> <i>H351 Suspected of causing cancer.</i> <i>H370 Causes damage to organs</i> <i>H372 Harmful to nervous system organs by exposure prolonged or repeated</i> <i>H402 Harmful to aquatic life</i> | <i>P102 Keep out of reach of children.</i> <i>P260 Do not breathe dust, smoke, gas, mist, vapors, aerosol.</i> <i>P284A In case of inadequate ventilation, wear respiratory protection</i> <i>P280E Wear protective gloves</i> <i>P304+P340 In case of inalation take the person outdoors and keep him comfortable to breathe.</i> <i>P333+P313 If you have skin irritation or rash, consult your doctor.</i> <i>P308+P311 En caso de exposición consulte al medico.</i> <i>P501 Dispose of in accordance with applicable local regulations.</i> |
| 3) Another dangers: <i>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking</i> <i>People with pre-isocyanate sessibility may develop a sensitization cross-reaction to other isocyanates</i> | |

SECTION III Content/ information about components

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| 1) Substances: Chemical identification of the substance | No. CAS | No. ONU | % |
| 2) For mixtures: <i>Poly (vinyl chloride)</i> <i>Titanium dioxide</i> <i>Isocyanate</i> <i>Calcium Oxide</i> <i>Xylene</i> | 9002-86-2 | N D | 20-50 |
| | 13463-67-7 | N D | <5 |
| | 101-68-8 | N D | 0.01-<0.10 |
| | 1305-78-8 | N D | <3 |
| | 1330-20-7 | N D | 1-5 |



SECTION IV First Aids

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| Inhalation <i>Take the person outdoors, if the discomfort continues get medical care.</i> | Skin contact <i>Remove the product from the skin with cloth, wash with plenty of soap and water, if the discomfort persists, consult your doctor.</i> |
| Ingestión: <i>Rinse mouth. If you feel unwell, get medical attention.</i> | Other existing health risks: <i>Refer to Section XI</i> |
| Eye contact: <i>Wash immediately with plenty of water for 15 minutes. Remove contact lenses. If discomfort persists consult your doctor.</i> | Antidote (if exists) or information for the urgencies doctor: <i>NA</i> |

SECTION V Fire measures

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| a) Means of extinction: Water <input type="checkbox"/> ← Foam <input type="checkbox"/> ← CO ₂ <input type="checkbox"/> ← PQS <input type="checkbox"/> ← Other <u> halon gas </u> | b) Personal protection equipment for fire fighting: <i>In the initial phase no specific PPE is required, in phase 2 or secondary fire or when the temperature is suddenly increased and the smoke accumulates considerably, firefighter structural equipment, self-contained breathing apparatus should be used</i> |
| | c) Special procedure and cautions during the fire fighting. <i>Fight the fire with any of the indicated extinguishing agents, always directing the jet to the base of the fire at an initial distance of 3 meters, if you have an emergency brigade, follow the internal protocols.</i> |

d) Conditions that may lead to another special risk or specific hazards.
None

e) Combustion components that may be healthy harmful
Carbon dioxide (CO₂), carbon monoxide (CO), toxic vapors and fumes.

SECTION VI Measures to be taken in case of accidental spill or leak.

a) The procedures and special precautions that are required for the cases of leak or spill are:
Evacuate the area, natural ventilation. In large spills or spills in confined spaces use mechanical methods, refer to the sections corresponding described in this MSDS and according to its internal protocol.

b) The mitigation ways to control the substance:
Collect as much spilled material as possible, sprinkle with sand before it dries and place in authorized containers, clean waste, dispose of according to the provisions

c) Relative cautions for environment:
Uncontrolled discharges to the soil or water could lead to adverse ecological effects, the necessary measures must be taken to avoid discharges into the environment. Any spillage must be contained and cleaned immediately before the material heals.

SECTION VII Handling and storage

a) Cautions to be taken during safety handle:
Do not use until you have read and understood safety precautions. The facilities should preferably have good ventilation. Keep away from incompatible substances. Wash your hands after handling it and use your PPE. Keep away from sources of ignition. It is recommended not to smoke.

b) Secure storage conditions, including any incompatibility
Do not store together with oxidizing materials, acids, strong bases and amines. Protect from heat and direct sunlight. Do not pack or store in: Phenolic coated aluminum containers and near strong bases. At temperatures below 4 ° C and above 45 ° C

SECTION VIII Exposure controls / personal protection.

| a) Control parameters. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Substance</th> <th>No CAS</th> <th>Regulatory Limits</th> <th>Cant</th> <th>Medida</th> </tr> </thead> <tbody> <tr> <td>Titanium dioxide</td> <td>13463-67-7</td> <td>OSHA PEL</td> <td>15</td> <td>mg/m³</td> </tr> <tr> <td>Isocyanate</td> <td>101-68-8</td> <td>OSHA PEL</td> <td>(C) 0.2</td> <td>mg/m³</td> </tr> <tr> <td>Calcium Oxide</td> <td>1305-78-8</td> <td>OSHA PEL</td> <td>5</td> <td>mg/m³</td> </tr> <tr> <td>Xylene</td> <td>1330-20-7</td> <td>OSHA PEL</td> <td>100</td> <td>ppm</td> </tr> </tbody> </table> | Substance | No CAS | Regulatory Limits | Cant | Medida | Titanium dioxide | 13463-67-7 | OSHA PEL | 15 | mg/m ³ | Isocyanate | 101-68-8 | OSHA PEL | (C) 0.2 | mg/m ³ | Calcium Oxide | 1305-78-8 | OSHA PEL | 5 | mg/m ³ | Xylene | 1330-20-7 | OSHA PEL | 100 | ppm | b) Appropriate technical controls <i>Use natural ventilation, if the ventilation is not appropriate, wear personal and respiratory protective equipment. Control dust or vapors.</i> |
|--|------------|-------------------|-------------------|-------------------|--------|------------------|------------|----------|----|-------------------|------------|----------|----------|---------|-------------------|---------------|-----------|----------|---|-------------------|--------|-----------|----------|-----|-----|---|
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**Permissible Exposure Limits- www.osha.gov*

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| c) Personal protection equipment <i>Suggested</i> |  | <i>Although it is not a product with significant risks, the use of the indicated personal protective equipment is suggested.</i> |
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SECTION IX physicochemical properties

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| a) Boiling temperature | 137°C | f) pH | NA | k) Vaporizing speed | NA | o) flammability limi Sup. | NA |
| b) Melting temperature | NA | g) molecular weight | NA | l) Water solubility | None | Inf. | NA |
| c) Flash temperature | >= 70° C | h) physical state | Pasty (gel type) | m) Vapor pressure | NA | p) VOC (g/L) | 92.8 |
| d) Autoignition temperature | >=200° C | i) Colour | Various | n) % Volatility | 0.5 | | |
| e) Density | 1.16 g/cm ³ | j) Odor | light to xylol | | | | |

SECTION X Stability and reactivity data.

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| a) El product considered: Stable <input type="checkbox"/> ← Unstable <input type="checkbox"/> | b) Incompatibility (Materials to avoid): <i>Reacts with alcohols, amines, strong acids and strong bases.</i> | c) Hazardous decomposition products: <i>Carbon monoxide, Carbon dioxide, Cyanidehydrogen, Nitrogen oxides.</i> |
| | d) Hazardous polymerization: Possible <input type="checkbox"/> Not Possible <input type="checkbox"/> ← | |
| | e) Other conditions to avoid reactions: <i>Do not store in very humid places.</i> | |

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| SECTION XI | | Toxicological information. | |
| 1. Routes of probable entry: | <i>Inhalation, ocular, cutaneous, ingestion.</i> | 4. Acute toxicity: | <i>NA</i> |
| 2. Symptom: | <i>Headache, dizziness and difficulty breathing, coughing, sneezing, runoffnasal, rocker, nose and throat pain, allergic respiratory reaction. Mild skin irritation, allergic skin reaction, rash. Gastrointestinal irritation, abdominal pain, nausea, vomiting, diarrhea.</i> | 5. Interactive effect: | <i>Prolonged or repeated uncontrolled exposure may cause hearing effects, neurological effects, may include changes in personality, lack of coordination, loss sensory, tingling or numbness of limbs, weakness, tremor and changes in blood pressure and heart rate.</i> |
| 3. Short and long term effect: | <i>Probable skin and eye irritation</i> | 6. Other information: | <i>It contains one or more chemicals that can cause cancer.</i> |
| SECTION XII | | Ecotoxicological information. | |
| 1. Toxicity: | <i>NA</i> | 4. Mobility in the ground.: | <i>NA</i> |
| 2. Persistence and degradability: | <i>Hydrocarbon light petroleum distillates 69 %BOD/ThBOD Xylene 98 %BOD/ThBOD Ethylbenzene 98 % BOD/ThBOD , Sebacato debis(1,2,2,6,6-pentamethyl-4-piperidinil) 38 % removal of DOC ,P, p'-metilenbis (isocyanate ofphenyl) 20 hours (t 1/2)</i> | 5. Other adverse effects: | <i>None</i> |
| 3. Bioaccumulation potential: | <i>Dióxido de titanio 9.6, Xileno 25.9, Etilbenceno 25.9, Sebacato debis(1,2,2,6,6-pentametil-4-piperidinil) <31.4 , P, p'-metilenbis (isocianato de fenilo)200.</i> | | |
| SECTION XIII | | Disposal information | |
| <i>Disposal must be done in accordance with federal, state and local regulations.</i> | | | |
| SECTION XIV | | Transport Information | |
| <i>It's Not a dangerous material.</i> | | | |
| <i>Concerning the transport by general land communication routes and its related auxiliary services, in relation to the Regulations for the Terrestrial Transport of Hazardous Materials and Waste, of the Ministry of Communications and Transportation.</i> | | | |
| 1. ONU number | <i>NA</i> | 4. Environmental risks: | <i>ND</i> |
| 2. Official designation transport ONI | <i>NA</i> | 6. Special precautions for the user | <i>ND</i> |
| 3. Transport hazard class: | <i>NA</i> | 7. Bulk transport measures | <i>None in specific</i> |
| 4. Container group: | <i>NA</i> | | |
| SECTION XV | | Regulatory information | |
| <i>No additional</i> | | | |
| SECTION XVI | | Other relevant information. | |
| <i>The information is considered correct, but it is not exhaustive and will be used only as guidance, which is based on current knowledge of the product and is applicable to the appropriate safety precautions for it.</i> | | | |
| <i>This data is provided in good faith, as typical values and not as product specifications. The recommended procedures for handling are generally applicable. However, the user must envisage these recommendations in the specific context of the use he wishes to give the product.</i> | | | |