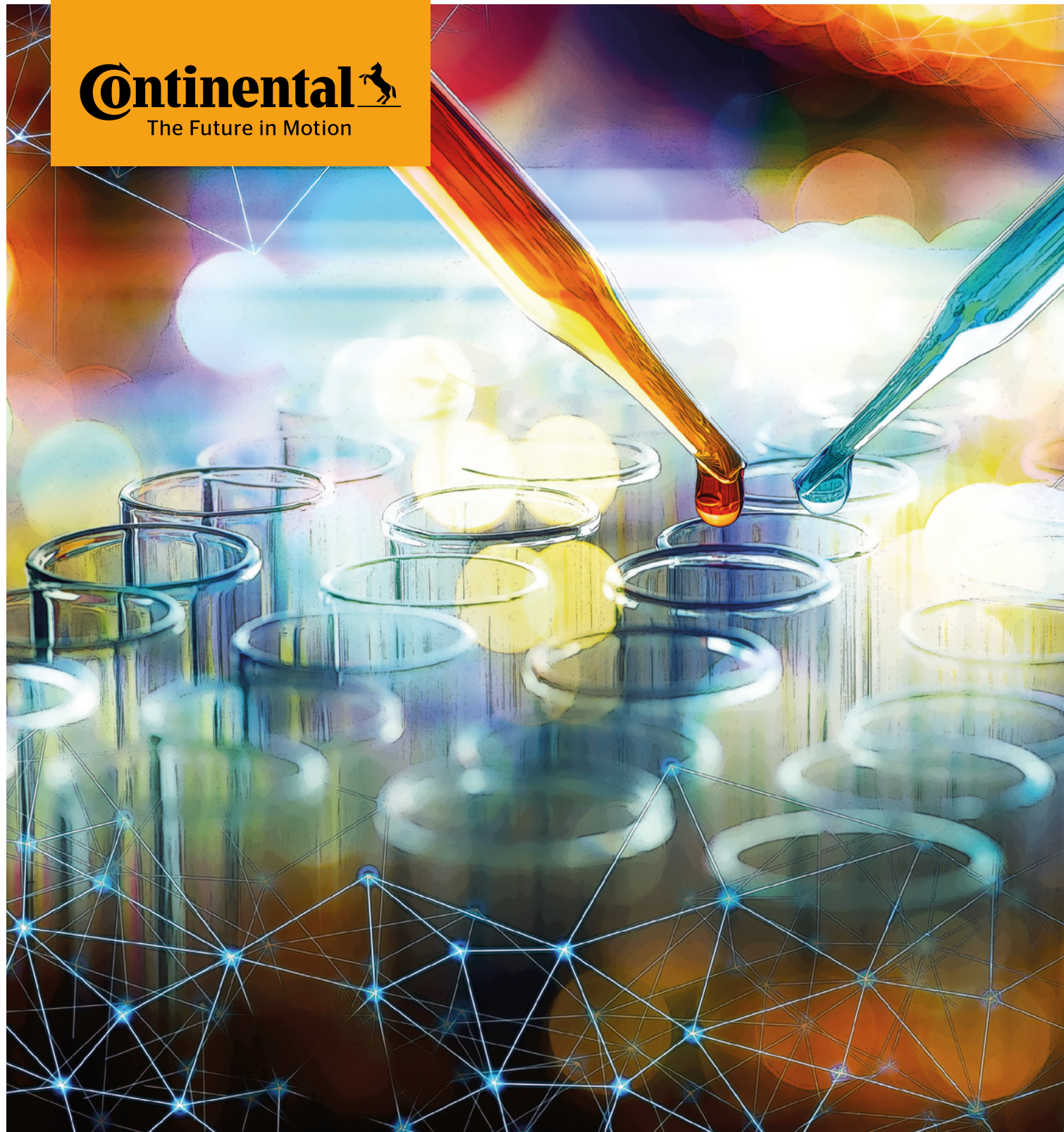




# **Resistencia Química** Chemical Resistance

# Resistencia Química

## Chemical Resistance

**TODAS LAS APLICACIONES TÉCNICAS HACEN REFERENCIA A UNA TEMPERATURA DE 23°C.**

**Esta tabla se refiere únicamente a la resistencia química, no al contacto con alimentos. (Ed. 5 28/05/2020)**

**ALL TECHNICAL APPLICATIONS APPLY TO A TEMPERATURE OF 23°C.**

**This Table is available only for chemical resistance, not for food contact. (Ed.5 28/05/2020)**

**Conc.:** Concentrado. **Todas conc.:** Todas las concentraciones. **Máx conc.:** Máxima concentración. **Sol. sat.:** Solución saturada. **Bé:** Baumé.

**Acu.:** Acuosa. **Met.:** Metálico. Para los gases, solo se indica la resistencia química: los datos no se refieren a la permeabilidad.

\*\* % de cloro libre, el grado técnico máximo es 15% Cl<sub>2</sub>

**Conc.:** Concentrated. **All conc.:** All the concentrations. **Max conc.:** Maximun concentration. **Sat. Sol.:** Saturated Solution. **Bé:** Baumé.

**Acq.:** Aqueous. **Met.:** Metallic. For the gases, only the chemical resistance is indicated: data not referred to permability.

\*\* % of free chlorine, technical grade is max 15% Cl<sub>2</sub>

### PVC

- › Agro Nevada
- › America FLEX
- › America FLEX PESANTE
- › Arizona SUPERELASTIC
- › Arizona ARCTIC antistático
- › Armorvin HNA
- › Armorvin HNP
- › Armorvin HNT
- › Armorvinpress
- › Florida
- › Iberflex
- › Idropool
- › Idropool MARINE WASTE
- › Jamaica S-M-L
- › Luisiana
- › Luisiana antistático
- › Luisiana OL SUPERELASTIC
- › Luisiana OM
- › Luisiana OM SUPERELASTIC
- › Luisiana SUPERELASTIC
- › Metalflex I
- › Medium
- › Nevada PHF
- › Oregon

- › Oregon PESANTE SUPERELASTIC
- › Quadrapool
- › Ragno ACQUA 15 BAR
- › Ragno AIR 20 BAR
- › Ragno ANTIGELO
- › Ragno CR
- › Ragno INDUSTRY
- › Ragno N 20-40 BAR
- › Shark Hose
- › Soleil NEW P TRICÒ
- › Super Ragno N ACQUA
- › Super Ragno N 80 BAR
- › Termoresistente KLL 125
- › Vacupress CRISTAL F.D.A
- › Vacupress ENO PHF
- › Vacupress FLEX
- › Vacupress MARINE WASTE
- › Vacupress SUPERELASTIC
- › Vinilflex N

### PU

- › Armorvin PU PHF
- › Armorvinpress PU<sup>(1)</sup>
- › Armorvin TOTAL PU OIL TPHF<sup>(1)</sup>
- › Luisiana PU antistático<sup>(1)</sup>

- › Oregon PU ET
- › Oregon PU EST
- › Oregon PU ET antistático
- › Oregon PU P EST antistático
- › Polipo 15 BAR OIL<sup>(1)</sup>
- › Ragno PU<sup>(1)</sup>
- › Ragno PU conduttivo<sup>(1)</sup>
- › Ragno TOTAL PU ET<sup>(1)</sup>
- › Ragno TOTAL PU ROBOT
- › Superflex PU LR DIN4102-B1
- › Superflex PU LR COMPACT
- › Superflex PU LR AS DIN4102-B1
- › Superflex PU CHR
- › Superflex PU R
- › Superflex PU R ET AS
- › Superflex PU R AS DIN4102-B1
- › Superflex PU R DIN4102-B1
- › Superflex PU HLR ET AS FOOD
- › Superflex PU PLUS HR ET AS
- › Superflex PU PLUS H
- › Superflex PU PLUS HMR
- › Superflex PU PLUS HMR DIN4102-B1
- › Superflex PU PLUS HPR
- › Superflex PU HPR ET AS
- › Superflex PU HPR AS DIN4102-B1

- › Superflex PU PLUS HPPR
- › Termoresistente PU 200 °C

### TPV

- › Detroit
- › Superflex CALOR
- › Vacupress CHEMI
- › Vacupress FOOD

### PVC OIL

- › America OIL
- › America OIL antistático RIC
- › Arizona ARCTIC
- › Tubo Benzina
- › Vacupress OIL
- › Vacupress OIL PU

### LLDPE

- › Oregon PE - PE AS
- › Super Ragno CHEMI 80 BAR<sup>(1)</sup>
- › Vacupress SUPERCHEMI<sup>(1)</sup>

<sup>(1)</sup> Sólo capa interna / Liner Only

| CAS. N.  | S: Resistente<br>O: Resistencia limitada<br>U: No resistente | S: Resistant<br>O: Restricted Resistant<br>U: Not resistant | USO • USE |     |       |    |         |     |
|----------|--------------------------------------------------------------|-------------------------------------------------------------|-----------|-----|-------|----|---------|-----|
|          | PRODUCTOS QUÍMICOS                                           | CHEMICALS                                                   | PVC       | TPV | LLDPE | PU | PVC OIL | EVA |
| 108-03-2 | 1-Nitropropano                                               | 1-Nitropropane                                              |           | O   |       |    |         |     |
| 123-91-1 | 1,4-Dioxano                                                  | 1,4-Dioxane                                                 |           | S   |       |    |         |     |
| 104-76-7 | 2-Etilexanol                                                 | 2-Ethylhexanol                                              |           | S   | S     |    |         |     |
| 616-45-5 | 2-Pilorrídona                                                | 2-Pirrolidone                                               |           | S   | S     |    |         |     |
| 67-63-0  | 2-Propanol (alcohol isopropílico)                            | 2-Propanol (Isopropyl alcohol)                              |           | S   | S     |    |         |     |
| 107-41-5 | 2,4-Pentanodiol                                              | 2,4-Pentandiol                                              |           | S   | S     |    |         |     |
| /        | Aceite animal                                                | Animal oils                                                 |           | O   | S     | U  |         | O   |
| /        | Aceite de alcanfor                                           | Camphor oil                                                 |           |     | U     |    |         |     |
| /        | Aceite de algodón                                            | Cottonseed oil                                              |           |     | S     |    |         |     |
| /        | Aceite de maíz                                               | Corn oil                                                    |           |     | S     |    |         |     |

| CAS. N.    | S : Resistente<br>O: Resistencia limitada<br>U: No resistente | S : Resistant<br>O: Restricted Resistant<br>U : Not resistant | USO • USE |     |       |                            |                                |     |
|------------|---------------------------------------------------------------|---------------------------------------------------------------|-----------|-----|-------|----------------------------|--------------------------------|-----|
|            | PRODUCTOS QUÍMICOS                                            | CHEMICALS                                                     | PVC       | TPV | LLDPE | PU                         | PVC OIL                        | EVA |
| /          | Aceite de oliva                                               | Olive oil                                                     |           | U   | O     |                            |                                |     |
| 8001-79-4  | Aceite de ricino                                              | Castor oil                                                    |           |     | S     |                            |                                | O   |
| /          | Aceite de sílica                                              | Silicone oil                                                  |           | U   | S     | S                          |                                | S   |
| /          | Aceite de transformador                                       | Transformer oil (technical grade)                             |           | U   | S     |                            |                                | O/U |
| /          | Aceite hidráulico                                             | Hydraulic oils                                                |           |     |       | S                          |                                |     |
| /          | Aceite mineral                                                | Mineral oil                                                   | U         | O/U | S     | S                          | S<br>(no aromatic, light oils) | O   |
| /          | Aceites lubricantes (petróleo)                                | Lubricant oils (petroleum)                                    |           |     |       | O                          |                                |     |
| /          | Aceites vegetales                                             | Vegetable oils                                                |           |     |       | S                          |                                |     |
| 75-07-0    | Acetaldehído                                                  | Acetaldehyde                                                  | U         |     | O     | U                          | U                              | S   |
| 60-35-5    | Acetamida 5%                                                  | Acetamide 5%                                                  |           |     |       | S                          |                                |     |
| 591-87-7   | Acetato de alilo                                              | Allyl acetate                                                 |           |     | S     |                            |                                |     |
| 142-03-0   | Acetato de aluminio                                           | Aluminium acetate                                             | S         |     |       |                            | S                              |     |
| 628-63-7   | Acetato de amilo                                              | Amyl acetate                                                  | U         |     | S     |                            | U                              | U   |
| 123-86-4   | Acetato de butilo                                             | Butyl acetate                                                 |           | S   | S     |                            |                                | S   |
| 62-54-4    | Acetato de calcio                                             | Calcium acetate                                               | S         |     |       |                            | S                              |     |
| 141-78-6   | Acetato de etilo                                              | Ethyl acetate                                                 | U         | O   | O     | U                          | U                              |     |
| 79-20-9    | Acetato de metilo                                             | Methyl acetate                                                |           |     | S     |                            |                                | U   |
| 301-04-2   | Acetato de plomo                                              | Lead acetate                                                  |           |     | S     |                            |                                | S   |
| 127-09-3   | Acetato de sodio                                              | Sodium acetate                                                | S         |     | S     |                            | S                              | S   |
| 108-05-4   | Acetato de vinilo                                             | Vinyl acetate                                                 |           |     | S     |                            |                                | U   |
| /          | Acetatos orgánicos                                            | Organic acetates                                              |           |     |       | S                          |                                |     |
| 67-64-1    | Acetona                                                       | Acetone                                                       | U         | O   | O     | U                          | U                              | U   |
| 75-05-8    | Acetonitrilo                                                  | Acetonitrile                                                  | U         | O   |       |                            | U                              |     |
| 64-19-7    | Ácido acético 3%                                              | Acetic acid 3%                                                | S         | S   | S     | Polyester S<br>Polyether O | S                              | O   |
| 64-19-7    | Ácido acético 5%                                              | Acetic acid 5%                                                | S         | S   | S     |                            | S                              | O   |
| 64-19-7    | Ácido acético 10%                                             | Acetic acid 10%                                               | S         | S   | S     |                            | S                              | O   |
| 64-19-7    | Ácido acético 30%                                             | Acetic acid 30%                                               | O         | S   | S     | U                          | O                              | O   |
| 64-19-7    | Ácido acético 50%                                             | Acetic acid 50%                                               | O         | S   | S     | U                          | O                              | O   |
| 64-19-7    | Ácido acético 80%                                             | Acetic acid 80%                                               | O         | S   |       | U                          | O                              | U   |
| 64-19-7    | Ácido acético conc.                                           | Acetic acid conc.                                             |           | S   |       | U                          |                                | U   |
| 124-04-9   | Ácido adipico                                                 | Adipic acid                                                   | S         |     |       |                            | S                              | S   |
| 7778-39-4  | Ácido arsénico todas conc.                                    | Arsenic acid all conc.                                        |           |     | S     |                            |                                | S   |
| 50-81-7    | Ácido ascórbico 10%                                           | Ascorbic acid 10%                                             |           |     | S     |                            |                                | S   |
| 76-93-7    | Ácido bencílico                                               | Benzilic acid                                                 |           | S   |       |                            |                                |     |
| 65-85-0    | Ácido benzoico                                                | Benzoic acid                                                  | O         |     | S     |                            | O                              | S   |
| 10043-35-3 | Ácido bórico 5%                                               | Boric acid 5%                                                 | S         |     | S     | S                          | S                              | S   |
| 10043-35-3 | Ácido bórico conc.                                            | Boric acid conc.                                              | S         |     | S     |                            | S                              | S   |
| 10035-10-6 | Ácido bromhídrico, sol. acu. 30%                              | Hydrobromic acid aq. sol. 30%                                 | S         |     | S     |                            | S                              | S   |
| 10035-10-6 | Ácido bromhídrico, sol. acu. 50%                              | Hydrobromic acid aq. sol. 50%                                 |           |     | S     |                            |                                | S   |
| 107-92-6   | Ácido butírico 20%                                            | Butyric acid 20%                                              | S         | S   | S     |                            | S                              |     |
| 107-92-6   | Ácido butírico conc.                                          | Butyric acid conc.                                            |           | S   | S     |                            |                                |     |
| 497-19-8   | Ácido carbónico 5%                                            | Carbonic acid 5%                                              | S         |     | S     | S                          | S                              | S   |
| 497-19-8   | Ácido carbónico conc.                                         | Carbonic acid conc.                                           | S         |     | S     |                            | S                              | S   |
| 74-90-8    | Ácido cianhídrico                                             | Cyanidric acid                                                |           |     | S     |                            |                                |     |



| CAS. N.    | S : Resistente<br>O : Resistencia limitada<br>U : No resistente |                                   | S : Resistant<br>O : Restricted Resistant<br>U : Not resistant |     | USO • USE |                            |         |     |
|------------|-----------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------|-----|-----------|----------------------------|---------|-----|
|            | PRODUCTOS QUÍMICOS                                              | CHEMICALS                         | PVC                                                            | TPV | LLDPE     | PU                         | PVC OIL | EVA |
| 77-92-9    | Ácido cítrico 5%                                                | Citric acid 5%                    | S                                                              |     | S         | S                          | S       | S   |
| 77-92-9    | Ácido cítrico sol.sat.                                          | Citric acid sat.sol.              |                                                                |     | S         |                            |         | S   |
| 7647-01-0  | Ácido clorhídrico (gas seco)                                    | Hydrochloric acid (dry gas)       |                                                                |     | S         |                            |         |     |
| 7647-01-0  | Ácido clorhídrico 5%                                            | Hydrochloric acid 5%              | S                                                              | S   | S         | S                          | S       | S   |
| 7647-01-0  | Ácido clorhídrico 20%                                           | Hydrochloric acid 20%             | S                                                              | S   | S         | U                          | S       | S   |
| 7647-01-0  | Ácido clorhídrico 22%                                           | Hydrochloric acid 22%             | S                                                              |     | S         | U                          | S       | S   |
| 7647-01-0  | Ácido clorhídrico conc.                                         | Hydrochloric acid conc.           | S                                                              |     | S         | U                          | S       | S   |
| 79-11-8    | Ácido cloroacético                                              | Chloracetic acid                  | U                                                              |     |           |                            | U       |     |
| 7790-94-5  | Ácido clorosulfónico 5%                                         | Chlorosulphonic acid 5%           |                                                                |     |           | U                          |         |     |
| 7790-94-5  | Ácido clorosulfónico conc.                                      | Chlorosulphonic acid conc.        | U                                                              |     | U         |                            | U       |     |
| 7738-94-5  | Ácido crómico 5%                                                | Chromic acid 5%                   | S                                                              |     | O         | S                          | S       | O   |
| 7738-94-5  | Ácido crómico 10%                                               | Chromic acid 10%                  | O                                                              |     | O         |                            | O       | O   |
| 7738-94-5  | Ácido crómico 50%                                               | Chromic acid 50%                  |                                                                |     | O         |                            |         | O   |
| 110-99-6   | Ácido diglicólico                                               | Diglycolic acid                   |                                                                |     | S         |                            |         | S   |
| 57-11-4    | Ácido esteárico                                                 | Stearic acid                      | S                                                              |     | S         |                            | S       |     |
| 7664-39-3  | Ácido fluorhídrico 4%                                           | Hydrofluoric acid 4%              | S                                                              |     | S         |                            | S       | S   |
| 7664-39-3  | Ácido fluorhídrico 20%                                          | Hydrofluoric acid 20%             | O                                                              |     | S         | U                          | O       | S   |
| 7664-39-3  | Ácido fluorhídrico 30%                                          | Hydrofluoric acid 30%             | O                                                              |     | S         | U                          | O       | S   |
| 7664-39-3  | Ácido fluorhídrico 40%                                          | Hydrofluoric acid 40%             | U                                                              |     | S         | U                          | U       | S   |
| 7664-39-3  | Ácido fluorhídrico 60%                                          | Hydrofluoric acid 60%             | U                                                              |     | S         | U                          | U       | S   |
| 7664-39-3  | Ácido fluorhídrico 85%                                          | Hydrofluoric acid 85%             |                                                                |     | S         |                            |         | S   |
| 16872-11-0 | Ácido fluorobórico                                              | Fluoboric acid, acq.              |                                                                |     | S         |                            |         | S   |
| 16961-83-4 | Ácido fluorosilícico, acuoso                                    | Fluorosilic acid, acq.            |                                                                |     | S         |                            |         | S   |
| 16961-83-4 | Ácido fluosilícico                                              | Fluorosilic acid                  |                                                                |     | S         |                            |         |     |
| 64-18-6    | Ácido fórmico 10%                                               | Formic acid 10%                   | O                                                              | S   | S         | U                          | O       | S   |
| 64-18-6    | Ácido fórmico 20%                                               | Formic acid 20%                   | O                                                              | S   | S         | U                          | O       |     |
| 64-18-6    | Ácido fórmico 25%                                               | Formic acid 25%                   | U                                                              | S   | S         | U                          | U       |     |
| 64-18-6    | Ácido fórmico 85%                                               | Formic acid 85%                   | U                                                              | S   | S         | U                          | U       | U   |
| 64-18-6    | Ácido fórmico conc.                                             | Formic acid conc.                 | U                                                              | S   | S         | U                          | U       | U   |
| 7664-38-2  | Ácido fosfórico 5%                                              | Phosphoric acid 5%                | S                                                              |     | S         |                            | S       | S   |
| 7664-38-2  | Ácido fosfórico 20%                                             | Phosphoric acid 20%               | S                                                              |     | S         |                            | S       | S   |
| 7664-38-2  | Ácido fosfórico 30%                                             | Phosphoric acid 30%               | S                                                              |     | S         |                            | S       | S   |
| 7664-38-2  | Ácido fosfórico 50%                                             | Phosphoric acid 50%               |                                                                |     | S         |                            |         | S   |
| 7664-38-2  | Ácido fosfórico 80%                                             | Phosphoric acid 80%               |                                                                |     | S         |                            |         | S   |
| 149-91-7   | Ácido gálico                                                    | Gallic acid                       |                                                                |     | S         |                            |         |     |
| 79-14-1    | Ácido glicólico                                                 | Glycolic acid                     |                                                                |     | S         |                            |         | S   |
| 7790-92-3  | Ácido hipocloroso 20%                                           | Hypochlorous acid 20%             | S                                                              |     | O         |                            | S       | O   |
| 7790-92-3  | Ácido hipocloroso, sol. acu. conc.                              | Hypochlorous acid aq. soln. conc. |                                                                |     | S         |                            |         |     |
| 50-21-5    | Ácido láctico, sol. acu. 3%                                     | Lactic acid aq. sol. 3%           | S                                                              |     | S         | Polyether S<br>Polyester O | S       | S   |
| 50-21-5    | Ácido láctico, sol. acu. 10%                                    | Lactic acid aq. sol. 10%          | S                                                              |     | S         |                            | S       | S   |
| 7697-37-2  | Ácido nítrico 5%                                                | Nitric acid 5%                    | S                                                              | S   | S         | O                          | S       | S   |
| 7697-37-2  | Ácido nítrico 10%                                               | Nitric acid 10%                   | S                                                              | S   | S         | U                          | O       | S   |
| 7697-37-2  | Ácido nítrico 20%                                               | Nitric acid 20%                   | S                                                              | S   | S         | U                          | U       | S   |
| 7697-37-2  | Ácido nítrico 30%                                               | Nitric acid 30%                   | S                                                              | O   | O         | U                          | U       | O   |

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|-----------|-----------------------------------------------------------------|----------------------------------------------------------------|-----------|-----|-------|----|---------|-----|
|           | PRODUCTOS QUÍMICOS                                              | CHEMICALS                                                      | PVC       | TPV | LLDPE | PU | PVC OIL | EVA |
| 7697-37-2 | Ácido nítrico 50%                                               | Nitric acid 50%                                                | S         | O   | O     | U  | U       | O   |
| 7697-37-2 | Ácido nítrico 70%                                               | Nitric acid 70%                                                | U         | U   | U     | U  | U       | O   |
| 7697-37-2 | Ácido nítrico 95%                                               | Nitric acid 95%                                                | U         | U   | U     | U  | U       | U   |
| 112-80-1  | Ácido oléico                                                    | Oleic acid                                                     |           |     |       | S  |         | U   |
| 144-62-7  | Ácido oxálico                                                   | Oxalic acid                                                    |           |     | S     |    |         | S   |
| 57-10-3   | Ácido palmítico                                                 | Palmitic acid                                                  |           |     |       | O  |         | O   |
| 79-21-0   | Ácido peracético                                                | Peracetic acid                                                 | U         | U   | O     | U  | U       |     |
| 7601-90-3 | Ácido perclórico (hasta 75%)                                    | Perchloric acid (up to 75%)                                    |           |     | S     | S  |         | S   |
| 88-89-1   | Ácido picrico (acuoso)                                          | Picric Acid (acq.)                                             |           |     | S     |    |         | S   |
| 471-25-0  | Ácido propargílico                                              | Propargylic acid                                               |           |     | S     |    |         | S   |
| 79-09-4   | Ácido propílico                                                 | Propylic acid                                                  |           |     | S     |    |         |     |
| 79-09-4   | Ácido propiónico                                                | Propionic acid                                                 |           | S   |       |    |         |     |
| 69-72-7   | Ácido salicílico                                                | Salicylic acid                                                 |           |     | S     |    |         | S   |
| 7783-08-6 | Ácido selénico                                                  | Selenic acid                                                   |           |     | S     |    |         |     |
| 7664-93-9 | Ácido sulfúrico 5%                                              | Sulphuric acid 5%                                              | S         | S   | S     | S  | S       | S   |
| 7664-93-9 | Ácido sulfúrico 20%                                             | Sulphuric acid 20%                                             | S         | S   | S     | U  | S       | S   |
| 7664-93-9 | Ácido sulfúrico 25%                                             | Sulphuric acid 25%                                             | S         | S   | S     | U  | S       | S   |
| 7664-93-9 | Ácido sulfúrico 50%                                             | Sulphuric acid 50%                                             | O         | S   | S     | U  | O       | S   |
| 7664-93-9 | Ácido sulfúrico 70%                                             | Sulphuric acid 70%                                             | U         | S   | S     | U  | U       | O   |
| 7664-93-9 | Ácido sulfúrico 80%                                             | Sulphuric acid 80%                                             | U         | S   | S     | U  | U       | O/U |
| 7664-93-9 | Ácido sulfúrico 96%                                             | Sulphuric acid 96%                                             | U         | S   | O     | U  | U       | O/U |
| 7664-93-9 | Ácido sulfúrico 98%                                             | Sulphuric acid 98%                                             | U         | S   | O     | U  | U       | O/U |
| 7664-93-9 | Ácido sulfúrico conc. fuming                                    | Sulphuric acid conc. Fuming                                    | U         |     | U     | U  | U       | U   |
| 7782-99-2 | Ácido sulfuroso                                                 | Sulphurous acid                                                |           |     | S     |    |         | O   |
| 1401-55-4 | Ácido tánico                                                    | Tannic acid                                                    |           |     | S     |    |         | S   |
| 69-93-2   | Ácido Úrico                                                     | Uric acid                                                      |           |     | S     |    |         | S   |
| /         | Ácidos grasos (>C6)                                             | Fatty acids (> C6)                                             |           |     | S     |    |         | U   |
| 123-86-4  | Acrilato de butilo                                              | Butyl acrylate                                                 |           |     | S     |    |         |     |
| 140-88-5  | Acrilato de etilo                                               | Ethyl acrylate                                                 | U         | S   |       |    | U       | U   |
| 96-33-3   | Acrilato de metilo                                              | Methyl acrylate                                                |           |     | S     |    |         |     |
| 107-13-1  | Acrilonitrilo                                                   | Acrylonitrile (technical grade)                                |           | S   | S     |    |         |     |
| 123-79-5  | Adipato de dioctilo                                             | Dioctyl adipate                                                |           | S   |       |    |         |     |
| 109-86-4  | Agua                                                            | Water                                                          | S         | S   | S     | S  | S       | S   |
| /         | Agua de cloro                                                   | Chlorine water sat. sol. 2%                                    |           |     | S     |    |         |     |
| /         | Agua de mar                                                     | Sea water                                                      | S         | S   | S     | S  | S       | S   |
| /         | Agua regia (HCl+HNO3)                                           | Aqua regia (HCl+HNO3)                                          |           |     | U     |    |         | U   |
| /         | Aire                                                            | Air                                                            | S         | S   | S     | S  | S       |     |
| 107-18-6  | Alcohol alílico (2-propenol -1)                                 | Allyl alcohol (2-propenol-1)                                   | U         | S   |       |    | U       | S   |
| 71-41-0   | Alcohol amílico                                                 | Amyl alcohol                                                   | S         | S   | S     |    | S       | S   |
| 100-51-6  | Alcohol bencílico                                               | Benzyl alcohol                                                 | U         |     |       |    | U       |     |
| /         | Alcohol butílico                                                | Butyl alcohol                                                  | O         |     | S     | S  | O       | S   |
| /         | Alcohol de aceite de coco                                       | Coconut oil alcohol                                            |           |     | S     |    |         |     |
| 64-17-5   | Alcohol etílico 10%                                             | Ethyl alcohol 10%                                              | S         | S   | S     |    | S       |     |
| 64-17-5   | Alcohol etílico 35%                                             | Ethyl alcohol 35%                                              | S         | S   | S     |    | S       |     |

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|------------|-----------------------------------------------------------------|----------------------------------|----------------------------------------------------------------|-----|-----------|----|---------|-----|
|            | PRODUCTOS QUÍMICOS                                              | CHEMICALS                        | PVC                                                            | TPV | LLDPE     | PU | PVC OIL | EVA |
| 64-17-5    | Alcohol etílico 40%                                             | Ethyl alcohol 40%                | S                                                              | S   | S         |    | S       |     |
| 64-17-5    | Alcohol etílico 50%                                             | Ethyl alcohol 50%                |                                                                | S   | S         | O  |         |     |
| 64-17-5    | Alcohol etílico 96%                                             | Ethyl alcohol 96%                | U                                                              | S   | S         | U  | U       | U   |
| 64-17-5    | Alcohol etílico máx. conc.                                      | Ethyl alcohol max. conc.         | U                                                              | S   | S         | U  | U       | U   |
| 98-00-0    | Alcohol furfurílico                                             | Furfuryl alcohol                 |                                                                |     | U         |    |         |     |
| 67-56-1    | Alcohol metílico 5%                                             | Methyl alcohol 5%                | S                                                              | S   | S         |    | S       | S   |
| 67-56-1    | Alcohol metílico 6%                                             | Methyl alcohol 6%                |                                                                | S   | S         | U  |         | S   |
| 67-56-1    | Alcohol metílico 50%                                            | Methyl alcohol 50%               |                                                                | S   | S         |    |         | S   |
| 67-56-1    | Alcohol metílico máx. conc.                                     | Methyl alcohol max. conc.        |                                                                | S   | S         |    |         | S   |
| 71-41-0    | Alcohol n-amílico                                               | n-Amyl alcohol                   |                                                                | S   |           |    |         |     |
| /          | Alcoholes minerales                                             | Mineral alcohols                 |                                                                | U   |           |    |         |     |
| /          | Aldehídos                                                       | Aldehydes                        |                                                                |     |           | U  |         |     |
| /          | Almidón (sol.sat.)                                              | Starch (sat.sol.)                |                                                                |     | S         |    |         |     |
| /          | Alumbres                                                        | Alums                            |                                                                |     | S         |    |         |     |
| /          | Aminas                                                          | Amines                           |                                                                |     |           | U  |         |     |
| 7664-41-7  | Amoníaco (gas)                                                  | Ammonia (gas)                    | U                                                              |     | S         |    | U       | S   |
| 7664-41-7  | Amoníaco líquido                                                | Liquid ammonia                   |                                                                | S   |           |    |         |     |
| 108-24-7   | Anídrido acético                                                | Acetic anhydride                 | U                                                              |     | U         |    | U       |     |
| 62-53-3    | Anilina                                                         | Aniline                          |                                                                | S   | S         |    |         | U   |
| /          | Asfalto                                                         | Asphalt                          |                                                                |     | S         |    |         | U   |
| 71-43-2    | Benceno                                                         | Benzene                          | U                                                              |     | U         |    | U       | U   |
| 100-52-7   | Benzaldehído                                                    | Benzaldehyde                     |                                                                | O   | O         | U  |         | U   |
| 532-32-1   | Benzoato de sodio                                               | Sodium benzoate                  |                                                                |     | S         |    |         | S   |
| 144-55-8   | Bicarbonato de sodio                                            | Sodium bicarbonate               |                                                                |     | S         |    |         | S   |
| 298-14-6   | Bicarbonato potásico                                            | Potassium bicarbonate            |                                                                |     | S         |    |         | S   |
| 7789-12-0  | Bicromato de sodio                                              | Sodium bichromate                |                                                                |     | S         |    |         |     |
| 7681-38-1  | Bisulfato de sodio                                              | Sodium bisulphate                |                                                                |     | S         |    |         | S   |
| /          | Bisulfatos y bisulfatos met.                                    | Bisulphates and met. Bisulphates | S                                                              |     |           |    | S       |     |
| 7631-90-5  | Bisulfito de sodio                                              | Sodium bisulphite                |                                                                |     | S         |    |         | S   |
| 1303-96-4  | Borato de sodio                                                 | Sodium borate                    |                                                                |     | S         |    |         |     |
| 1303-96-4  | Bórax 5%                                                        | Borax 5%                         | S                                                              |     | S         | S  | S       |     |
| 1303-96-4  | Bórax conc.                                                     | Borax conc.                      | S                                                              |     | S         |    | S       |     |
| 7726-95-6  | Bromo, líquido                                                  | Bromine, liquid                  |                                                                |     | U         |    |         | U   |
| 108-86-1   | Bromobenceno                                                    | Bromobenzene                     |                                                                | U   | U         | U  |         |     |
| 71626-99-8 | Bromuro de calcio 15%                                           | Calcium bromide 15%              |                                                                | S   |           |    |         |     |
| 106-93-4   | Bromuro de etileno                                              | Ethylene bromide                 | U                                                              |     |           |    | U       | U   |
| 7758-02-3  | Bromuro de potasio                                              | Potassium bromide                |                                                                |     | S         |    |         | S   |
| 7647-15-6  | Bromuro de sodio                                                | Sodium bromide                   |                                                                |     | S         |    |         | S   |
| 7699-45-8  | Bromuro de zinc                                                 | Zinc bromide                     |                                                                |     | S         |    |         |     |
| 106-97-8   | Butano                                                          | Butane (gas)                     |                                                                |     |           |    |         | U   |
| /          | Butanodiol 10%                                                  | Butandiol 10%                    |                                                                |     | S         |    |         |     |
| /          | Butanodiol 100%                                                 | Butandiol 100%                   | U                                                              |     | S         |    | U       |     |
| /          | Butanodiol 50%                                                  | Butandiol 50%                    |                                                                |     | S         |    |         |     |
| /          | Butanol (agua)                                                  | Butanol (acq.)                   |                                                                |     | S         |    |         | S   |

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|------------|-----------------------------------------------------------------|-----------------------------|----------------------------------------------------------------|-----|-----------|----|---------|-----|
|            | PRODUCTOS QUÍMICOS                                              | CHEMICALS                   | PVC                                                            | TPV | LLDPE     | PU | PVC OIL | EVA |
| 109-73-9   | Butilamina                                                      | Butylamine                  |                                                                |     |           | O  |         |     |
| /          | Café                                                            | Coffee                      |                                                                |     | S         |    |         |     |
| /          | Caprolactona                                                    | Caprolactone                |                                                                | S   | S         |    |         |     |
| 506-87-6   | Carbonato de amonio                                             | Ammonium carbonate          | S                                                              |     | S         |    | S       | S   |
| 513-77-9   | Carbonato de bario                                              | Barium carbonate sat.sol.   |                                                                |     | S         |    |         | S   |
| 5892-10-4  | Carbonato de bismuto                                            | Bismuth carbonate sat.sol.  |                                                                |     | S         |    |         | S   |
| 471-34-1   | Carbonato de calcio                                             | Calcium carbonate           |                                                                |     | S         |    |         | S   |
| 13717-00-5 | Carbonato de magnesio                                           | Magnesium carbonate         |                                                                |     | S         |    |         | S   |
| 584-08-7   | Carbonato de potasio                                            | Potassium carbonate         |                                                                |     | S         |    |         | S   |
| 497-19-8   | Carbonato de sodio                                              | Sodium carbonate            | S                                                              |     | S         |    | S       | S   |
| 3486-35-9  | Carbonato de zinc                                               | Zinc carbonate              |                                                                |     | S         |    |         |     |
| 9000-71-9  | Caseína                                                         | Casein                      | S                                                              |     |           |    | S       |     |
| /          | Cerveza                                                         | Beer                        |                                                                |     | S         |    |         | S   |
| 544-92-3   | Cianuro de cobre                                                | Copper cyanide (sat. sol.)  |                                                                |     | S         |    |         | S   |
| 151-50-8   | Cianuro de potasio                                              | Potassium cyanide           |                                                                |     | S         |    |         | S   |
| 143-33-9   | Cianuro de sodio                                                | Sodium cyanide              |                                                                |     | S         |    |         |     |
| 110-82-7   | Ciclohexano                                                     | Cyclohexane                 | U                                                              | U   | S         | O  | U       | O   |
| 108-93-0   | Ciclohexanol                                                    | Cyclohexanol                |                                                                | S   | S         | U  |         | S   |
| 108-94-1   | Ciclohexanona                                                   | Cyclohexanone               | U                                                              |     |           | U  | U       | S   |
| 10137-74-3 | Clorato de calcio                                               | Calcium chlorate            |                                                                |     | S         |    |         | S   |
| 3811-04-9  | Clorato de potasio                                              | Potassium chlorate          |                                                                |     | S         |    |         | S   |
| 7775-09-9  | Clorato de sodio                                                | Sodium chlorate             |                                                                |     | S         |    |         |     |
| 7782-50-5  | Cloro 100%, gas seco                                            | Chlorine 100%, dry gas      |                                                                |     | O         |    |         | U   |
| 7782-50-5  | Cloro húmedo                                                    | Chlorine moist              |                                                                |     |           | U  |         | U   |
| 7782-50-5  | Cloro líquido                                                   | Chlorine liquid             |                                                                |     | U         |    |         |     |
| 108-90-7   | Clorobenceno                                                    | Chlorobenzene               |                                                                |     | U         |    |         | U   |
| 67-66-3    | Cloroformo                                                      | Chloroform                  | U                                                              |     | U         |    | U       | U   |
| 85535-85-9 | Cloroparafinas C14-C17                                          | Chloroparaffins C14-C17     | U                                                              | S   | S         |    | U       |     |
| 75-36-5    | Cloruro de acetilo                                              | Acetyl chloride             |                                                                | O   |           |    |         |     |
| 7446-70-0  | Cloruro de aluminio                                             | Aluminium chloride          |                                                                |     | S         |    |         | S   |
| 7446-70-0  | Cloruro de aluminio 25%                                         | Aluminium chloride 25%      |                                                                |     | S         | S  |         | S   |
| 543-59-9   | Cloruro de amilo                                                | Amyl chloride               |                                                                |     | U         |    |         | U   |
| 12125-02-9 | Cloruro de amonio 25%                                           | Ammonium chloride 25%       |                                                                |     | S         | S  |         | S   |
| 12125-02-9 | Cloruro de amonio sol. sat.                                     | Ammonium chloride sat.sol.  |                                                                |     | S         |    |         | S   |
| 10361-37-2 | Cloruro de bario                                                | Barium chloride sat.sol.    |                                                                |     | S         |    |         | S   |
| 10043-52-4 | Cloruro de calcio 20%                                           | Calcium chloride 20%        | S                                                              | S   | S         | S  | S       | S   |
| 10043-52-4 | Cloruro de calcio 25%                                           | Calcium chloride 25%        | S                                                              |     | S         | S  | S       | S   |
| 10043-52-4 | Cloruro de calcio sol.sat.                                      | Calcium chloride sat.sol.   | S                                                              |     | S         |    | S       | S   |
| 1344-67-8  | Cloruro de cobre                                                | Copper chloride (sat. sol.) |                                                                |     | S         |    |         | S   |
| 7772-99-8  | Cloruro de estaño (II)                                          | Tin chloride (II)           |                                                                |     | S         |    |         |     |
| 7646-78-8  | Cloruro de estaño (IV)                                          | Tin chloride (IV)           |                                                                |     | S         |    |         |     |
| 75-00-3    | Cloruro de etilo                                                | Ethyl chloride              |                                                                | U   | U         |    |         | U   |
| 75-09-2    | Cloruro de metileno                                             | Methylene chloride          |                                                                | U   | U         |    |         |     |
| 74-87-3    | Cloruro de metilo                                               | Methyl chloride             |                                                                |     |           | U  |         |     |

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|----------------------|---------------------------------------------------------------|--------------------------------------------------------------|-----------|-----|-------|----|---------|-----|
|                      | PRODUCTOS QUÍMICOS                                            | CHEMICALS                                                    | PVC       | TPV | LLDPE | PU | PVC OIL | EVA |
| 7718-54-9            | Cloruro de níquel                                             | Nickel chloride                                              |           |     | S     |    |         | S   |
| 7447-40-7            | Cloruro de potasio                                            | Potassium chloride                                           |           |     | S     | S  |         | S   |
| 7647-14-5            | Cloruro de sodio 20%                                          | Sodium chloride 20%                                          | S         | S   | S     |    | S       |     |
| 7647-14-5            | Cloruro de sodio 25%                                          | Sodium chloride 25%                                          | S         |     | S     | O  | S       |     |
| 7647-14-5            | Cloruro de sodio conc.                                        | Sodium chloride conc.                                        | S         |     | S     |    | S       |     |
| 7646-85-7            | Cloruro de zinc 20%                                           | Zinc chloride 20%                                            | S         | S   | S     |    | S       | S   |
| 7646-85-7            | Cloruro de zinc conc.                                         | Zinc chloride conc.                                          | S         |     | S     |    | S       | S   |
| 7705-08-0            | Cloruro férrico                                               | Ferric chloride (Iron trichloride)                           | S         |     | S     | S  |         | S   |
| 7758-94-3            | Cloruro ferroso                                               | Ferrous chloride                                             |           |     | S     |    |         | S   |
| /                    | Cresol                                                        | Cresol                                                       | U         |     |       | U  | U       | U   |
| 7789-00-6            | Cromato de potasio                                            | Potassium chromate 40%                                       |           |     | S     |    |         | S   |
| 91-17-8              | Decalina                                                      | Decalin                                                      |           | U   |       |    |         |     |
| /                    | Detergentes concentrados                                      | Conc. detergents use                                         | S         | S   |       | S  | S       |     |
| /                    | Detergentes sintéticos                                        | Detergents, synthetic                                        |           |     | S     |    |         |     |
| 9004-53-9            | Dextrina                                                      | Dextrin                                                      | S         |     | S     |    | S       | S   |
| 50-99-7              | Dextrosa                                                      | Dextrose                                                     | S         |     | S     |    | S       | S   |
| 74-95-3              | Dibromo metano                                                | Dibromo methane                                              |           | U   | U     |    |         |     |
| 142-96-1             | Dibutiléter                                                   | Dibutylether                                                 |           | S   | S     |    |         |     |
| 106-46-7             | Diclorobenceno                                                | Dichlorobenzene                                              | U         |     | S     |    |         | U   |
| 1300-21-6            | Dicloroetano                                                  | Dichloroethane                                               |           |     | U     | S  |         |     |
| 78-87-5              | Dicloruro de propileno (100%)                                 | Propylene dichloride (100%)                                  |           |     | U     |    |         |     |
| 7778-50-9            | Dicromato de potasio 40%                                      | Potassium dichromate 40%                                     | S         |     | S     | S  | S       | S   |
| 7778-50-9            | Dicromato de potasio todas conc.                              | Potassium dichromate all conc.                               | S         |     |       | S  | S       | S   |
| 109-89-7             | Dietilamina                                                   | Diethylamine                                                 |           |     |       | U  |         |     |
| 96-22-0              | Dietilcetona                                                  | Diethyl ketone                                               | U         |     | O     |    | U       |     |
| 111-46-6             | Dietilenglicol                                                | Diethylene glycol                                            |           | S   | S     | O  |         | S   |
| 11071-47-9           | Diisobutileno                                                 | Di-isobutylene                                               |           | U   |       |    |         |     |
| 108-20-3             | Diisopropil éter                                              | Di-isopropyl-ether                                           |           | O   |       |    |         |     |
| 68-12-2              | Dimetil formamida                                             | Dimethyl formamide                                           | U         | S   |       | U  | U       |     |
| 124-40-3             | Dimetilamina                                                  | Dimethyl amine                                               |           |     | U     |    |         | U   |
| 67-64-1              | Dimetilformaldehido                                           | Dimethylformaldehyde                                         |           | S   |       |    |         |     |
| 67-68-5              | Dimetilsulfóxido                                              | Dimethylsulfoxide                                            |           |     | S     |    |         |     |
| 122-62-3             | Diocilsebacato                                                | Diocetyl sebacate                                            |           |     |       | S  |         |     |
| 123-91-1<br>505-22-6 | Dioxano                                                       | Dioxane (all isomers)                                        | U         |     |       |    | U       |     |
| 7446-09-5            | Dióxido de Azufre (acuoso)                                    | Sulphur dioxide (acq.)                                       |           |     | S     |    |         | S   |
| 124-38-9             | Dióxido de carbono                                            | Carbon dioxide                                               | S         |     | S     | S  | S       | S   |
| 25265-71-8           | Dipropilenglicol                                              | Dipropyleneglycol                                            |           | S   |       |    |         |     |
| /                    | Disolventes clorados                                          | Chlorinated solvents                                         | U         |     |       |    | U       |     |
| 75-15-0              | Disulfuro de carbono                                          | Carbon disulphide                                            |           | O   | S     |    |         |     |
| 112-53-8             | Dodecanol                                                     | Dodecanol                                                    | S         |     |       |    | S       |     |
| /                    | Emulsionantes                                                 | Emulsifiers                                                  | S         |     |       |    | S       |     |
| /                    | Emulsiones, fotográficos                                      | Emulsions, photographic                                      |           |     | S     |    |         |     |
| 557-05-1             | Estearato de zinc                                             | Zinc stearate                                                |           |     | S     |    |         |     |
| /                    | Ésteres adípicos                                              | Adipic esters                                                |           |     | S     |    |         |     |



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|--------------------------|--------------------------------------------------------------|----------------------------------|-------------------------------------------------------------|-----|-----------|------------------------------------------|-------------------------------------------------------------|-----|
|                          | PRODUCTOS QUÍMICOS                                           | CHEMICALS                        | PVC                                                         | TPV | LLDPE     | PU                                       | PVC OIL                                                     | EVA |
| /                        | Ésteres alifáticos                                           | Aliphatic esters                 | U                                                           |     |           |                                          | U                                                           |     |
| 74-84-0                  | Etano                                                        | Ethane                           |                                                             |     |           | O                                        |                                                             |     |
| 60-29-7                  | Eter dietílico                                               | Diethylether                     |                                                             | S   |           | U                                        |                                                             |     |
| 60-29-7                  | Éter etílico                                                 | Ethyl ether                      |                                                             |     | U         | U                                        |                                                             | U   |
| 108-20-3                 | Éter isopropílico                                            | Isopropyl ether                  |                                                             |     |           | S                                        |                                                             |     |
| 100-41-4                 | Etilbenceno                                                  | Ethyl benzene                    |                                                             |     | U         |                                          |                                                             |     |
| 97-53-0                  | Eugenol                                                      | Eugenol                          |                                                             | U   |           |                                          |                                                             |     |
| /                        | Extractos de concentrados de cola                            | Concentrated extracts of cola    |                                                             |     | S         |                                          |                                                             |     |
| 62-53-3                  | Fenilamina                                                   | Phenylamine                      |                                                             |     |           | S                                        |                                                             |     |
| 108-95-2                 | Fenol                                                        | Phenol                           |                                                             | S   |           | U                                        |                                                             | U   |
| 14217-21-1               | Ferrocianuro de sodio                                        | Sodium ferric cyanide            |                                                             |     | S         |                                          |                                                             | S   |
| 7782-41-4                | Flúor, gaseoso                                               | Fluorine, gaseous                |                                                             |     | U         |                                          |                                                             | U   |
| 16984-48-8               | Fluoruro                                                     | Fluoride                         | U                                                           |     |           |                                          | U                                                           |     |
| 7784-18-1                | Fluoruro de aluminio todas conc.                             | Aluminium fluoride all conc.     |                                                             |     | S         |                                          |                                                             | S   |
| 12125-01-8               | Fluoruro de amonio sol. sat.                                 | Ammonium fluoride sat.sol.       |                                                             |     | S         |                                          |                                                             | S   |
| 7789-19-7                | Fluoruro de cobre 2%                                         | Copper fluoride 2%               |                                                             |     | S         |                                          |                                                             | S   |
| 7789-23-3                | Fluoruro de potasio                                          | Potassium fluoride               |                                                             |     | S         |                                          |                                                             | S   |
| 7681-49-4                | Fluoruro de sodio                                            | Sodium fluoride                  |                                                             |     | S         |                                          |                                                             |     |
| 50-00-0                  | Formaldehído 20%                                             | Formaldehyde 20%                 |                                                             |     | S         | U                                        | S                                                           | S   |
| 50-00-0                  | Formaldehído 37%                                             | Formaldehyde 37%                 | S                                                           |     | S         | U                                        | S                                                           | S   |
| 50-00-0                  | Formaldehído 40%                                             | Formaldehyde 40%                 | O                                                           |     | S         | U                                        | O                                                           | S   |
| 75-12-7                  | Formamida                                                    | Formamide                        |                                                             | S   |           |                                          |                                                             |     |
| 10028-24-7               | Fosfato disódico                                             | Bisodic phosphate                |                                                             |     | S         |                                          |                                                             |     |
| 7601-54-9                | Fosfato trisódico                                            | Trisodium phosphate              |                                                             |     | S         |                                          |                                                             | S   |
| 75-69-4                  | Freon 11 (Refrigerante)                                      | Freon 11                         |                                                             | U   |           | U                                        |                                                             |     |
| 75-71-8                  | Freon 12 (Refrigerante)                                      | Freon 12                         |                                                             | U   |           | S                                        |                                                             | S   |
| 75-45-6                  | Freon 22 (Refrigerante)                                      | Freon 22                         |                                                             | U   |           | U                                        |                                                             |     |
| 7776-48-9                | Fructosa                                                     | Fructose, acq.                   | S                                                           |     | S         |                                          | S                                                           | S   |
| 131-18-0                 | Ftalato de amilo                                             | Amyl phthlate                    |                                                             |     | U         |                                          |                                                             |     |
| 85-68-7                  | Ftalato de bencil butil (BBP)                                | Butyl Benzyl Phthalat (BBP)      |                                                             |     | O         |                                          |                                                             |     |
| 84-74-2                  | Ftalato de diisobutilo                                       | Di-isobutylphthalate             |                                                             |     | S         | Polyester S                              |                                                             |     |
| 68515-49-1<br>53306-54-0 | Ftalato de Diisodecilo (DIDP) e isómeros                     | Di-isodecyl phthlate and isomers | U                                                           | U   |           | O/U                                      | U                                                           |     |
| 28553-12-0<br>68515-48-0 | Ftalato de Diisononilo (DINP) e isómeros                     | Diisononyl phthalate and isomers | U                                                           | U   | O         | O/U                                      | U                                                           |     |
| 117-81-7                 | Ftalato de Diisooctilo (DIOP)                                | Di-isooctyl phthlate             | U                                                           | U   | O         | O/U                                      | U                                                           |     |
| /                        | Fueloil                                                      | Oil fuel                         |                                                             |     |           | S                                        | S                                                           |     |
| 110-00-9                 | Furano                                                       | Furan                            |                                                             | O   |           |                                          |                                                             |     |
| 98-01-1                  | Furfural                                                     | Furfurol                         |                                                             |     | U         |                                          |                                                             |     |
| /                        | Gas licuado de petróleo (GLP)                                | Liquefied petroleum gas          | O                                                           |     |           |                                          |                                                             |     |
| /                        | Gas natural                                                  | Natural gas                      |                                                             |     | S         | O                                        |                                                             |     |
| /                        | Gasóleo y Biodiesel                                          | Diesel oil and biodiesel         |                                                             |     |           | Polyester S                              | S                                                           |     |
| /                        | Gasolina                                                     | Petrol / Gasoline                |                                                             |     |           | O/S Depending from the conditions of use | O (different performances, depending from the type of hose) | U   |
| /                        | Gelatina                                                     | Gelatine                         |                                                             |     |           | S                                        |                                                             |     |
| 56-81-5                  | Glicerina                                                    | Glycerine                        | S                                                           |     | S         | S                                        | S                                                           |     |
| 56-81-5                  | Glicerol                                                     | Glycerol                         | S                                                           | S   |           |                                          | S                                                           | S   |

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|------------|-----------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------|-----|-----------|----|---------|-----|
|            | PRODUCTOS QUÍMICOS                                              | CHEMICALS                                | PVC                                                            | TPV | LLDPE     | PU | PVC OIL | EVA |
| 111-76-2   | Glicol de butilo                                                | Butyl Glycol (technical grade)           |                                                                |     | S         |    |         |     |
| 107-21-1   | Glicol de etileno                                               | Ethylene glycol                          | S                                                              | S   | S         | S  | S       | S   |
| 57-55-6    | Glicol de propileno                                             | Propylene glycol                         |                                                                | S   | S         |    |         |     |
| /          | Glicoles                                                        | Glycols, commercial mix                  |                                                                |     | S         | O  |         | S   |
| 5996-10-1  | Glucosa                                                         | Glucose, acq.                            |                                                                |     | S         |    |         | S   |
| /          | Grasas animales                                                 | Animal fats                              |                                                                |     |           | S  |         |     |
| /          | Grasas de litio, sodio y calcio                                 | Calcium, sodium and lithium fats         |                                                                |     |           | S  |         |     |
| /          | Grasas de silicona                                              | Silicone fats                            |                                                                |     |           | S  |         |     |
| 142-82-5   | Heptano                                                         | Heptane                                  |                                                                |     | S         |    |         | U   |
| 118-74-1   | Hexaclorobenceno                                                | Hexachlorobenzene                        |                                                                |     | S         |    |         |     |
| 110-54-3   | Hexano                                                          | Hexane                                   | U                                                              |     | S         | S  | U       |     |
| /          | Hexanol, terciario                                              | Hexanol, tertiary                        |                                                                |     | S         |    |         |     |
| /          | Hidrocarburos aromáticos                                        | Aromatic hydrocarbons                    | U                                                              | U   | U         |    | U       |     |
| 1333-74-0  | Hidrógeno                                                       | Hydrogen                                 |                                                                |     | S         | S  |         |     |
| 123-31-9   | Hidroquinona                                                    | Hydroquinone                             |                                                                |     | S         |    |         |     |
| 21645-51-2 | Hidróxido de aluminio                                           | Aluminium hydroxide                      | S                                                              |     |           |    | S       | S   |
| 7664-41-7  | Hidróxido de amonio 10%                                         | Ammonium hydroxide (liquid) 10%          | S                                                              | S   | S         |    | S       | S   |
| 7664-41-7  | Hidróxido de amonio 25%                                         | Ammonium hydroxide (liquid) 25%          | S                                                              | S   | S         |    | S       | S   |
| 7664-41-7  | Hidróxido de amonio 28% (26 Bé)%                                | Ammonium hydroxide (liquid) 28% (26 Bé)% | S                                                              | S   | S         |    | S       | S   |
| 7664-41-7  | Hidróxido de amonio 30%                                         | Ammonium hydroxide (liquid) 30%          |                                                                | S   | S         |    |         |     |
| 7664-41-7  | Hidróxido de amonio 5%                                          | Ammonium hydroxide (liquid) 5%           | S                                                              | S   | S         | S  | S       | S   |
| 7664-41-7  | Hidróxido de amonio conc.                                       | Ammonium hydroxide (liquid) conc.        |                                                                | S   | S         |    |         | S   |
| 12230-71-6 | Hidróxido de bario                                              | Barium hydroxide sat.sol.                |                                                                |     | S         |    |         | S   |
| 1305-62-0  | Hidróxido de calcio                                             | Calcium hydroxide                        | S                                                              |     | S         |    | S       | S   |
| 1310-58-3  | Hidróxido de potasio 5%                                         | Potassium hydroxide 5%                   | S                                                              | S   | S         | S  | S       | S   |
| 1310-58-3  | Hidróxido de potasio 10%                                        | Potassium hydroxide 10%                  | S                                                              | S   | S         |    | S       | S   |
| 1310-58-3  | Hidróxido de potasio 50%                                        | Potassium hydroxide 50%                  | S                                                              |     | S         |    | S       | S   |
| 1310-58-3  | Hidróxido de potasio conc.                                      | Potassium hydroxide conc.                | S                                                              |     | S         |    | S       |     |
| 1310-73-2  | Hidróxido de sodio (sosa) 5%                                    | Sodium hydroxide 5%                      | S                                                              | S   | S         | S  | S       | S   |
| 1310-73-2  | Hidróxido de sodio (sosa) 10%                                   | Sodium hydroxide 10%                     | S                                                              | S   | S         | O  | S       | S   |
| 1310-73-2  | Hidróxido de sodio (sosa) 20%                                   | Sodium hydroxide 20%                     | S                                                              | S   | S         | U  | S       | S   |
| 1310-73-2  | Hidróxido de sodio (sosa) 50%                                   | Sodium hydroxide 50%                     |                                                                |     | S         | U  |         | S   |
| 1310-73-2  | Hidróxido de sodio (sosa) conc.                                 | Sodium hydroxide conc.                   |                                                                |     | S         | U  |         |     |
| 7778-54-3  | Hipoclorito de calcio                                           | Calcium hypochlorite                     | S                                                              |     | S         |    |         | S   |
| 1310-58-3  | Hipoclorito de potasio, sol. sat.                               | Potassium hypochlorite sat. Sol.         |                                                                |     | O         |    |         | S   |
| 7681-52-9  | Hipoclorito de sodio 14% cl2                                    | Sodium hypochlorite 14% cl2              | S                                                              | S   | S         | U  | S       | S   |
| 7681-52-9  | Hipoclorito de sodio 15% cl2                                    | Sodium hypochlorite 15% cl2              | S                                                              |     | S         | U  | S       | S   |
| 540-84-1   | Isooctano                                                       | Isooctane                                |                                                                |     |           | S  |         |     |
| /          | Jabones líquidos                                                | Liquid soaps                             | S                                                              |     |           | U  | S       |     |
| /          | Lacas base disolvente                                           | Lacquers and lacquer solvents            |                                                                |     |           | S  |         |     |
| 8006-54-0  | Lanolina                                                        | Lanolin                                  | S                                                              |     |           |    | S       |     |
| /          | Leche                                                           | Milk                                     |                                                                |     | S         |    |         | S   |
| /          | Lejía                                                           | Lye                                      |                                                                |     | S         |    |         |     |
| /          | Lejía, sol. Alcalina                                            | Lye, alkaline sol.                       |                                                                |     |           | S  |         |     |

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|------------|--------------------------------------------------------------|-------------------------------------------------------------|-----------|-----|-------|----|---------|-----|
|            | PRODUCTOS QUÍMICOS                                           | CHEMICALS                                                   | PVC       | TPV | LLDPE | PU | PVC OIL | EVA |
| /          | Levadura                                                     | Yeast                                                       |           |     | S     |    |         |     |
| /          | Líquido revelado (fotográfico)                               | Developers (photographic)                                   |           |     | S     |    |         |     |
| 108-39-4   | m-Cresol                                                     | m-Cresol                                                    |           | S   |       |    |         |     |
| 13257-51-7 | Mercurio                                                     | Mercury                                                     |           |     | S     |    |         | S   |
| 80-62-6    | Metacrilato de metilo                                        | Methyl methacrylate                                         |           | S   |       |    |         |     |
| 13776-88-0 | Metafosfato de aluminio                                      | Alluminium metaphosphate                                    |           |     |       |    |         |     |
| 74-82-8    | Metano                                                       | Methane                                                     |           |     |       | S  |         |     |
| 78-93-3    | Metiletilcetona                                              | Methylethylketone                                           |           | O   | U     | S  |         | U   |
| 630-08-0   | Monóxido de carbono                                          | Carbon monoxide                                             |           |     | S     |    |         | S   |
| 71-36-3    | n-Butanol                                                    | n-Butanol                                                   |           | S   | S     |    |         |     |
| 124-18-5   | n-Decano                                                     | n-Decane                                                    |           | U   |       |    |         |     |
| 142-82-5   | n-Heptano                                                    | n-Heptane                                                   |           |     | U     |    |         |     |
| 110-54-3   | n-Hexano                                                     | n-Hexane                                                    |           | U   |       |    |         |     |
| 111-65-9   | n-Octano                                                     | n-Octane                                                    |           | U   |       |    |         |     |
| 617-84-5   | N,N-Dietilformamida                                          | N,N'-diethylformamide                                       |           | S   |       |    |         |     |
| /          | Nafta                                                        | Naphtha                                                     |           |     | O     | O  |         | O   |
| 91-20-3    | Naftalina                                                    | Naphthalene                                                 |           | U   |       |    |         |     |
| 22083-74-5 | Nicotina                                                     | Nicotine                                                    |           |     | S     |    |         | S   |
| 6484-52-2  | Nitrato de amonio 25%                                        | Ammonium nitrate 25%                                        | S         |     | S     | S  | S       |     |
| 6484-52-2  | Nitrato de amonio sol. sat.                                  | Ammonium nitrate sat. sol.                                  | S         |     | S     |    | S       |     |
| 10124-37-5 | Nitrato de calcio 50%                                        | Calcium nitrate 50%                                         |           |     | S     | S  |         | S   |
| 10124-37-5 | Nitrato de calcio conc.                                      | Calcium nitrate conc.                                       |           |     |       | S  |         |     |
| 3251-23-8  | Nitrato de cobre 30%                                         | Copper nitrate 30%                                          |           |     | S     |    |         | S   |
| 3251-23-8  | Nitrato de cobre sol. sat.                                   | Copper nitrate sat.sol.                                     |           |     | S     |    |         |     |
| 13138-45-9 | Nitrato de níquel                                            | Nickel nitrate                                              |           |     | S     |    |         | S   |
| 7761-88-8  | Nitrato de plata                                             | Silver nitrate                                              |           |     | S     |    |         | S   |
| 10099-74-8 | Nitrato de plomo                                             | Lead nitrate                                                |           |     | S     |    |         |     |
| 7757-79-1  | Nitrato de potasio                                           | Potassium nitrate                                           |           |     | S     | S  |         |     |
| 7631-99-4  | Nitrato de sodio                                             | Sodium nitrate                                              |           |     | S     | S  |         | S   |
| 10421-48-4 | Nitrato férrico                                              | Ferric nitrate                                              |           |     | S     |    |         | S   |
| 79-24-3    | Nitro-etano                                                  | Nitro-etnane                                                |           |     | U     |    |         |     |
| 98-95-4    | Nitrobenceno                                                 | Nitrobenzene                                                |           | O   |       |    |         |     |
| 7727-37-9  | Nitrógeno                                                    | Nitrogen                                                    | S         | S   | S     | S  | S       |     |
| 8014-95-7  | Óleum                                                        | Oleum                                                       |           |     |       | U  |         | U   |
| /          | Orina                                                        | Urine                                                       |           |     | S     |    |         |     |
| 95-92-1    | Oxalato de etilo                                             | Ethyl oxalate                                               |           |     |       | S  |         |     |
| 1305-78-8  | Óxido de calcio                                              | Calcium oxide                                               |           |     | S     |    |         |     |
| 75-56-9    | Óxido de propileno                                           | Propylene oxide                                             |           | O   |       |    |         |     |
| 1314-13-2  | Óxido de zinc                                                | Zinc oxide                                                  |           |     | S     |    |         |     |
| 7782-44-7  | Oxígeno                                                      | Oxygen                                                      | S         | S   | S     | S  | S       | S   |
| 10028-15-6 | Ozono                                                        | Ozone                                                       |           |     | O     | S  |         | U   |
| 109-66-0   | Pentano                                                      | Pentane                                                     |           |     |       | U  |         |     |
| 13769-41-0 | Perborato de potasio                                         | Potassium perborate                                         |           |     | S     |    |         | S   |
| 7778-74-7  | Perclorato de potasio 10%                                    | Potassium perchlorate 10%                                   |           |     | S     |    |         | S   |

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|------------|---------------------------------------------------------------|--------------------------------------------------------------|-----------|-----|-------|----------------------------|---------|-----|
|            | PRODUCTOS QUÍMICOS                                            | CHEMICALS                                                    | PVC       | TPV | LLDPE | PU                         | PVC OIL | EVA |
| 7722-64-7  | Perclorato de potasio 20%                                     | Potassium permanganate 20%                                   |           |     | S     |                            |         | U   |
| 127-18-4   | Percloroetileno                                               | Perchloroethylene                                            |           | U   | U     | U                          |         |     |
| 7722-84-1  | Peróxido de hidrógeno 10 vol.                                 | Hydrogen peroxide acq. 10%                                   | S         |     | O     |                            | S       | S   |
| 7722-84-1  | Peróxido de hidrógeno 30 vol.                                 | Hydrogen peroxide acq. 30%                                   | S         |     | O     |                            | S       | S   |
| 7727-54-0  | Persulfato de amonio                                          | Ammonium persulphate                                         | S         |     | S     |                            | S       |     |
| 7727-21-1  | Persulfato de potasio                                         | Potassium persulphate                                        |           |     | S     |                            |         | S   |
| /          | Petróleo                                                      | Petroleum                                                    |           |     |       | O                          |         |     |
| /          | Petróleo crudo, bajo en azufre                                | Crude oil low sulphur                                        | U         | U   | S     | Polyester S<br>Polyether O | U       | U   |
| /          | Petróleo crudo, alto contenido de azufre                      | Crude oil high sulphur                                       | U         | U   | S     | Polyester S<br>Polyether O | U       | U   |
| 110-86-1   | Piridina                                                      | Pyridine                                                     |           | S   | U     |                            |         |     |
| 9046-10-0  | Polioxipropilendiamina                                        | Polyoxypropylendiamine                                       | O/U       |     |       |                            |         |     |
| 13943-58-3 | Potasio Hexacionaferrato (II)                                 | Potassium hexacyanoferrate (II)                              |           |     | S     |                            |         |     |
| 13746-66-2 | Potasio Hexacionaferrato (III)                                | Potassium hexacyanoferrate (III)                             |           |     | S     |                            |         |     |
| 71-23-8    | Propano                                                       | n-Propanol                                                   |           |     | S     |                            |         | S   |
| 40811-14-1 | Propano                                                       | Propane                                                      |           |     |       | S                          |         | O/U |
| 107-12-0   | Propionitrilo                                                 | Propionitrile                                                |           | U   | U     |                            |         |     |
| /          | Pulpa de fruta                                                | Fruit pulps                                                  |           |     | S     |                            |         | S   |
| /          | Queroseno                                                     | Kerosene                                                     | O         |     | O     | S                          | S       | U   |
| /          | Resina epoxídica                                              | Epoxy resin                                                  |           |     |       | U                          |         |     |
| 108-46-3   | Resorcinol                                                    | Resorcinol                                                   |           |     | S     |                            |         |     |
| /          | Sales diazo                                                   | Diazo salts                                                  |           |     | S     |                            |         |     |
| /          | Sidra                                                         | Cider                                                        |           |     | S     |                            |         | S   |
| 1343-98-2  | Siliciácido, acuoso                                           | Silicic acid, acq.                                           |           |     | S     |                            |         | S   |
| /          | Solución de jabón (todas conc.)                               | Soap solution (all conc.)                                    |           |     | S     | S                          |         | S   |
| /          | Solución fotográfica                                          | Photographic solution                                        |           |     | S     |                            |         | S   |
| /          | Soluciones para cadmiado                                      | Solutions for cadmium plating                                |           |     | S     |                            |         |     |
| /          | Soluciones para chapado latón                                 | Solutions for brass plating                                  |           |     | S     |                            |         |     |
| /          | Soluciones para chapado oro                                   | Solutions for gold plating                                   |           |     | S     |                            |         |     |
| /          | Soluciones para chapado plata                                 | Solutions for silver plating                                 |           |     | S     |                            |         |     |
| /          | Soluciones para chapado plomo                                 | Solutions for lead plating                                   |           |     | S     |                            |         |     |
| /          | Soluciones para estañado                                      | Solutions for tin plating                                    |           |     | S     |                            |         |     |
| /          | Soluciones para galvanizado                                   | Solutions for zinc plating                                   |           |     | S     |                            |         |     |
| /          | Soluciones para niquelado                                     | Solutions for nickel plating                                 |           |     | S     |                            |         |     |
| /          | Soluciones para recubrimiento cobre                           | Solutions for copper plating                                 |           |     | S     |                            |         |     |
| /          | Suero                                                         | Whey                                                         |           |     | S     |                            |         | S   |
| 10043-01-3 | Sulfato de aluminio sol. sat.                                 | Aluminium sulphate sat.sol.                                  |           |     | S     | U                          |         | S   |
| 7727-54-0  | Sulfato de amonio sol.sat.                                    | Ammonium sulphate sat.sol.                                   |           |     | S     | U                          |         | S   |
| 7727-43-7  | Sulfato de bario sol.sat.                                     | Barium sulphate sat.sol.                                     |           |     | S     |                            |         | S   |
| 13397-24-5 | Sulfato de calcio                                             | Calcium sulphate                                             |           |     | S     |                            |         | S   |
| 7758-98-7  | Sulfato de cobre sol. sat.                                    | Copper sulphate sat.sol.                                     |           |     | S     | S                          |         | S   |
| 7487-88-9  | Sulfato de magnesio                                           | Magnesium sulphate                                           |           |     | S     |                            |         | S   |
| 15244-37-8 | Sulfato de níquel                                             | Nickel sulphate                                              |           |     | S     |                            |         | S   |
| 7778-80-5  | Sulfato de potasio                                            | Potassium sulphate                                           |           |     | S     | S                          |         | S   |
| 7757-82-6  | Sulfato de sodio                                              | Sodium sulphate                                              |           |     | S     |                            |         | S   |

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|------------|-----------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------|-----|-----------|----|---------|-----|
|            | PRODUCTOS QUÍMICOS                                              | CHEMICALS                             | PVC                                                            | TPV | LLDPE     | PU | PVC OIL | EVA |
| 7733-02-0  | Sulfato de zinc                                                 | Zinc sulphate                         |                                                                |     | S         |    |         | S   |
| 7720-78-7  | Sulfato ferroso                                                 | Ferrous sulphate                      |                                                                |     | S         |    |         | S   |
| 10117-38-1 | Sulfito de potasio (conc.)                                      | Potassium sulphite (conc.)            |                                                                |     | S         |    |         |     |
| 10196-04-0 | Sulfuro de amonio                                               | Ammonium sulphide                     | S                                                              |     | S         |    | S       | S   |
| 21109-95-5 | Sulfuro de bario sol.sat.                                       | Barium sulphide sat.sol.              |                                                                |     | S         |    |         | S   |
| 20548-54-3 | Sulfuro de calcio                                               | Calcium sulphide                      |                                                                |     |           | S  |         |     |
| 7783-06-4  | Sulfuro de hidrógeno (gas)                                      | Hydrogen sulphide (gas)               | S                                                              |     |           |    | S       | S   |
| 1312-73-8  | Sulfuro de potasio (conc.)                                      | Potassium sulphide (conc.)            |                                                                |     | S         |    |         | S   |
| 1313-82-2  | Sulfuro de sodio                                                | Sodium sulphide                       |                                                                |     | S         |    |         | S   |
| 6422-86-2  | Tereftalato de bis(2-etilhexilo) - DEHT                         | Di (2-ethylhexyl terephthalate)       | U                                                              | U   |           |    |         |     |
| 56-23-5    | Tetracloruro de carbono                                         | Carbon tetrachloride                  |                                                                | U   | U         |    |         | U   |
| 7550-45-0  | Tetracloruro de titanio                                         | Titanium tetrachloride                |                                                                |     | U         |    |         |     |
| 109-99-9   | Tetrahidrofurano                                                | Tetrahydrofuran                       |                                                                | O   | U         | U  |         | O/U |
| /          | Tinta                                                           | Ink                                   |                                                                |     | S         |    |         | S   |
| 108-88-3   | Tolueno                                                         | Toluene                               |                                                                |     | U         | U  |         | U   |
| 8006-64-2  | Trementina                                                      | Turpentine                            |                                                                | U   | U         | S  |         | U   |
| 79-01-6    | Tricloroetileno                                                 | Trichloroethylene                     |                                                                | U   | U         |    |         | U   |
| 67-66-3    | Triclorometano                                                  | Trichloromethane                      |                                                                | U   |           |    |         |     |
| 10025-91-9 | Tricloruro de antimonio                                         | Antimony trichloride                  | S                                                              |     | S         |    | S       |     |
| 102-71-6   | Trietanolamina                                                  | Triethanolamine                       |                                                                |     | S         | U  |         | O   |
| 112-27-6   | Trietilenglicol                                                 | Triethylene Glycol                    |                                                                |     | S         |    |         |     |
| 7637-07-2  | Trifluoruro de boro                                             | Boron trifluoride                     |                                                                |     | S         |    |         | S   |
| 3319-31-1  | Trimelitato de trioctilo (TOTM)                                 | Trioctyl Trimellitate (TOTM)          | U                                                              | S   | S         |    | U       |     |
| 7772-98-7  | Trisulfato de sodio                                             | Sodium thiosulphate                   |                                                                |     |           | S  |         |     |
| 57-13-6    | Urea                                                            | Urea                                  | S                                                              |     | S         | S  | S       | S   |
| /          | Vainilla                                                        | Vanilla                               |                                                                |     | S         |    |         |     |
| /          | Vinagre                                                         | Vinegar                               |                                                                |     | S         |    |         |     |
| /          | Vino                                                            | Wines                                 |                                                                |     | S         |    |         |     |
| /          | Whisky                                                          | Wiskey                                |                                                                |     | S         |    |         |     |
| 1330-20-7  | Xileno                                                          | Xylene                                |                                                                | U   | U         | U  |         | U   |
| /          | Yodo (solución de Yoduro de potasio)                            | Iodine (solution in potassium iodide) |                                                                |     | O         |    |         |     |
| 74-88-4    | Yoduro de metilo                                                | Methyl iodide                         |                                                                | O   |           |    |         |     |

**TODAS LAS APLICACIONES TÉCNICAS HACEN REFERENCIA A UNA TEMPERATURA DE 23°C.**

Esta tabla se refiere únicamente a la resistencia química, no al contacto con alimentos. (Ed. 5 28/05/2020 )

**Conc.:** Concentrado

**Todas conc.:** Todas las concentraciones

**Máx conc:** Máxima concentración

**Sol. sat.:** Solución saturada

**Sol. acu.:** Solución acuosa

**Bé:** Baumé.

Para los gases, solo se indica la resistencia química: los datos no se refieren a la permeabilidad.

IDONEIDAD REFERIDA AL MATERIAL DE LA CAPA INTERIOR DE LA MANGUERA

**ALL TECHNICAL APPLICATIONS APPLY TO A TEMPERATURE OF 23°C.**

This Table is available only for chemical resistance, not for food contact. (Ed.5 28/05/2020)

**Conc.:** Concentrated

**All conc.:** All the concentrations

**Max conc:** Maximum concentration

**Sat. Sol.:** Saturated Solution

**Aq. sol.:** Aqueous solution

**Bé:** Baumé

For the gases, only the chemical resistance is indicated: data not referred to permeability.

THE SUITABILITY REFERS TO THE INNER MATERIAL OF THE HOSE.



**MERLETT IBÉRICA 2016 S.L.**

C/ Maset del Grau, 35  
Polígono Industrial El Grab  
08758 Cervelló  
(Barcelona) · España  
Tel: +34 93 4774630  
Fax: +34 93 4774631  
manguera-industrial.ES@continental.com  
www.merlett.com/es



Para más información:  
[www.continental-industry.com](http://www.continental-industry.com)

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