



## Declaration / Datasheet

### Inside thread - One-piece Squeegees

**Fyens Børste- og Kostefabrik ApS.**

Teknikvej 53  
5260 Odense S  
Denmark

**Art. Numbers:**

One-piece squeegees: 28300-, 28400-, 28500-, 28600-, 28700-

Hand squeegees: 28243-

**Trade names:** One-piece squeegees super hygienic

**Squeegees block:** Polypropylene grade (98%) - master batch (2%); White, Blue, Red, Yellow, Green, Black, Orange, Purple, Brown and Grey

**Squeegees rubber:** Cawiton PR 5018 B, natural coloured SEBS compound, hardness of 15 shore A (98%) - master batch (2%); White, Blue, Red, Yellow, Green, Black, Orange, Purple, Brown and Grey

#### **Squeegees Block:**

We confirm that the squeegees block to the above mentioned products fulfill the requirements on materials and articles used for food contact as described in the European Regulation 10/2011/EC as amended up to and including 202/2014/EC. The master batches are furthermore in compliance with European Resolution Res AP (89) 1.

The following substances also authorized as direct food additives (dual use additives) are present in the products:

Ref no. 24550, stearic acid      Ref no. 56585, Glycerol, esters with stearic acid      Ref no. 92080, Talc

Furthermore the various colours contain the following dual use additives:

White, blue, yellow green, purple and grey: TiO<sub>2</sub> and calcium stearate

Red and orange: TiO<sub>2</sub>, CaCO<sub>3</sub> and calcium stearate

Brown: TiO<sub>2</sub>, Iron Oxide and Calcium stearate

The squeegees block do not contain a functional barrier as defined in Regulation 10/2011/EC as amended up to and including 202/2014/EC

The squeegees block do not apply any danger to health or environment according to article 3 in Framework Regulation 1935/2004/EC. The items are manufactured according to Regulation 2023/2006/EC on good manufacturing practice. The items comply with current EU-legislation on plastic materials and articles intended for food contact as described in EC Regulation 10/2011/EC as amended up to and including 202/2014/EC and the Danish executive order no. 822 of 26/06/2013

**FDA (American Food and Drug Administration):** All raw materials to the squeegees block are in compliance with FDA-CFR 21 / Food code 2009.

**EU regulations:** Made in accordance with EU regulations; 10/2011/EC as amended up to and including 202/2014/EC , 1935/2004/EC, 2023/2006, 579/2011/EC.  
EU directive; 93/43/EEC.

#### **Raw material – Rubber for Squeegees:**

Herewith we declare that the raw material components used in Cawiton PR5018B, rubber used for above mentioned products, respectively, possesses approval for food contact applications:

**U.S.A – Statement Food Contact Compliance (FDA 21CFR):** The styrene Block Copolymers used (SEBS, SEEPS) are compliant with FDA, Title 21CFR 177. 1810 (b)(3) and FDA FCN No. 63, respectively.

The polypropylene used complies with FDA 21 CFR 177.1520 (a)(1)(i), (b) and (c)(1.1a) Olefin Polymers.

The polyphenylene oxide (PPO) used complies with FDA, Title 21 CFR 172.878 and Title 21 CFR 178.3620 (a).

The mineral filler is qualified for usage as an indirect food additive in food packaging applications under FDA 21 CFR 174.5, 175.300, and 178.3297.

**European Union – Statement Food Contact Compliance EU. (Commission Regulation No. 10 (2011) related to Plastic Material and Articles intended to come into contact with foodstuffs.:** The Styrene Block Copolymers, the polypropylene resin and polyphenylene oxide (PPO) used meet the relevant requirements of Framework Regulation 1935/2004/EC, so far applicable for

plastic raw materials, used for articles or components of articles intended to come into contact with food. The monomers, starting substance and additives (incl. the plasticizer) used are listed in Annex I of the consolidated Commission Regulation No. 10 (2011) as amended, related to Plastic Materials and Articles intended to come into contact with foodstuffs. Applicable restrictions are available on request (supplier proprietary information). The mineral filler complies with EB71-3.

**Before use:** It is recommended to clean, disinfect and/or sterilise the article before use.

**After use:** clean, disinfect and sterilise the article after use according to the appropriate to its intended use, using the correct chemical, concentration, time and temperature.

Sterilise in an autoclave max temp. 120°C (max temp for cleaning the article 120°C).

Disinfected; tolerate all approved disinfectants.

Date: 2015-02-16

Declaration made by: Karsten Skov.

### Chemical resistance of Cawiton compounds:

Below is attached general chemical resistance of Cawiton PR5018B compounds:

*Wittenburg b.v. Rubber- & Kunststoffmengsels*



Chemical resistance of Cawiton compounds

#### Chemical resistance of general Cawiton® SBS and SEBS grades

|                        |   |
|------------------------|---|
| Acetic acid, 5 %       | S |
| Acetone                | U |
| Ammonia                | S |
| Bleach                 | L |
| Butter                 | L |
| Cola beverage          | S |
| Detergent, 30 %        | S |
| Ethyl acetate          | U |
| Ethylalcohol, diluted  | S |
| Ethylalcohol, 96 %     | L |
| Gasoline               | U |
| Hydrochloric acid, 3 N | S |
| Hydrogen peroxide, 6 % | S |
| Mayonaise              | L |
| Ketchup                | S |
| Hand lotion            | S |
| Methylalcohol          | L |
| Milk                   | E |
| Mineral oil            | L |
| Nitric acid, 3 N       | S |
| Orange juice           | S |
| Salad oil              | L |
| Sodium hydroxide, 3 N  | S |
| Sulfuric acid          | S |
| Terpentine             | U |
| Toluene                | U |
| Water                  | E |

E = Excellent  
S = Satisfactory  
L = Limited  
U = Unsatisfactory

Cawiton® is a registered trademark of:

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| medium  | test condition | SN940 value change |          |                  |
|---|----------------|--------------------|----------|------------------|
|   |                | weight %           | volume % | hardness Shore A |
| acetic acid 10%   | 7d/RT          | NR                 | NR       | NR               |
|   | 14d/RT         | NR                 | NR       | NR               |
|   | 21d/RT         | NR                 | NR       | NR               |
| acetone   | 7d/RT          | -23                | -30      | +14              |
|   | 14d/RT         | -22                | -29      | +13              |
|   | 21d/RT         | -16                | -22      | +10              |
| break fluid   | 7d/RT          | -5                 | -7       | -3               |
|   | 14d/RT         | -7                 | -10      | -2               |
|   | 21d/RT         | -8                 | -12      | -2               |
|   | 70h/120°C      | -23                | -33      | +21              |
| butanol   | 7d/RT          | NR                 | NR       | NR               |
|   | 14d/RT         | NR                 | NR       | NR               |
|   | 21d/RT         | NR                 | NR       | NR               |
| chlorine solution   | 7d/RT          | -0,1               | -0,1     | 0                |
| coolant (glysantine:distilled water = 1:1)                | 7d/90°C        | +4                 | +4       | -5               |
|   | 14d/90°C       | +6                 | +7       | -5               |
|   | 21d/90°C       | +9                 | +12      | -13              |
| coolant (glysantine:distilled water = 1:1 +1% Kutwell 40) | 7d/90°C        | +0,2               | +0,2     | -1               |
|   | 14d/90°C       | +0,2               | +0,2     | -1               |
|   | 21d/90°C       | +0,2               | +0,2     | -1               |
| distilled water   | 7d/80°C        | +0,6               | +0,6     | 0                |
|   | ethanol        | -7                 | -9       | +2               |
| ethyl acetate   | 7d/RT          | -7                 | -9       | +2               |
|   | 14d/RT         | -7                 | -9       | +1               |
|   | 21d/RT         | -7                 | -9       | +1               |
| ethylene glycol   | 7d/RT          | -18                | -25      | +2               |
|   | 14d/RT         | -18                | -26      | +4               |
|   | 21d/RT         | -19                | -26      | +5               |
| formic acid 10%   | 7d/RT          | +1                 | +0,2     | -1               |
|   | 14d/RT         | +2                 | +1,5     | -2               |
|   | 21d/RT         | +3                 | +3       | -4               |
| fornic acid   | 7d/RT          | +22                | +26      | -6               |
|   | 14d/RT         | +43                | +53      | -11              |
|   | 21d/RT         | +63                | +74      | -15              |
| formaldehyde  | 7d/RT          | +9                 | +11      | -5               |
|   | 14d/RT         | +17                | +19      | -7               |
|   | 21d/RT         | +24                | +26      | -8               |
| gasoline A (isooctane)                                    | 7d/RT          | +4                 | +19      | -7               |
|   | 14d/RT         | +5                 | +20      | -10              |
|   | 21d/RT         | +4                 | +19      | -8               |
| gasoline B (isooctane:Toluene = 7:3)                      | 7d/RT          | NR                 | NR       | NR               |
|   | 14d/RT         | NR                 | NR       | NR               |
|   | 21d/RT         | NR                 | NR       | NR               |
| gasoline C (isooctane:Toluene = 1:1)                      | 7d/RT          | NR                 | NR       | NR               |
|   | 14d/RT         | NR                 | NR       | NR               |
|   | 21d/RT         | NR                 | NR       | NR               |
| gasoline fam. 2   | 7d/RT          | NR                 | NR       | NR               |
|   | 14d/RT         | NR                 | NR       | NR               |
|   | 21d/RT         | NR                 | NR       | NR               |
| grease (multi-purpose Shell Retimax A)                    | 7d/40°C        | +17                | +21      | -6               |
|   | 14d/40°C       | +25                | +30      | -7               |
|   | 21d/40°C       | +31                | +40      | -12              |
| glycerin  | 7d/RT          | -0,1               | -0,1     | 0                |
|   | 14d/RT         | -0,1               | -0,1     | -1               |
|   | 21d/RT         | 0                  | 0        | -1               |
| hydrochloride acid  | 7d/RT          | ND                 | ND       | ND               |
|   | 14d/RT         | ND                 | ND       | ND               |
|   | 21d/RT         | ND                 | ND       | ND               |

NR: not resistant  
ND: no data



# WITTENBURG

Your partner in TPE, medical & food compounds

## Chemical resistance of Cawiton compounds

|   |   |   |   |                                     |   |
|---|---|---|---|-------------------------------------|---|
| 1 Acetaldehyde                                | R | 73 Ethyl bromide                          | R | 145 Oils vegetable                  | T |
| 2 Acetates (low mol wt)                       | R | 74 Ethyl chloride                         | R | 146 Oleic acid                      | R |
| 3 Acetic acid (less than 5%)                  | R | 75 Ethylamine                             | R | 147 Oxalic acid                     | R |
| 4 Acetic acid (more than 5%)                  | R | 76 Ethylene chlorohydrin                  | R | 148 Oxygen (gas)                    | R |
| 5 Acetic anhydride                            | T | 77 Ethylene dichloride                    | R | 149 Ozone                           | R |
| 6 Aceto nitrile                               | R | 78 Ethylene glycol                        | T | 150 Perchloric acid                 | R |
| 7 Acetone                                     | T | 79 Ethylene oxide                         | R | 151 Perchloroethylene               | T |
| 8 Acetyl bromide                              | R | 80 Fatty acids                            | T | 152 Phenol                          | N |
| 9 Acetyl chloride                             | R | 81 Ferric chloride                        | R | 153 Phosphoric acid (ortho)         | R |
| 10 Air  | R | 82 Ferric sulfate                         | R | 154 Phthalic acid                   | N |
| 11 Alcohols                                   | T | 83 Ferrous chloride                       | R | 155 Plating solutions               | R |
| 12 Aliphatic hydrocarbons (C4 and higher)     | N | 84 Ferrous sulfate                        | R | 156 Polyglycol                      | T |
| 13 Aluminium chloride                         | R | 85 Fluoborate salts                       | R | 157 Potassium carbonate             | R |
| 14 Aluminium sulphate                         | R | 86 Fluoboric acid                         | R | 158 Potassium chlorate              | R |
| 15 Alums                                      | R | 87 Fluosilicic acid                       | R | 159 Potassium hydroxide (med.conc.) | R |
| 16 Ammonia (gas, liquid)                      | R | 88 Formaldehyde                           | R | 160 Potassium hydroxide (conc.)     | R |
| 17 Ammonium acetate                           | R | 89 Formic acid                            | R | 161 Potassium iodide                | R |
| 18 Ammonium carbonate                         | R | 90 Freon                                  | T | 162 Propinal Aldehyde               | R |
| 19 Ammonium chloride                          | R | 91 Gasoline (non-aromatic)                | N | 163 Pyridine                        | R |
| 20 Ammonium hydroxide                         | R | 92 Gasoline (high-aromaticity)            | N | 164 Sea water                       | R |
| 21 Ammonium nitrate                           | R | 93 Glucose (dextrose)                     | R | 165 Silicone fluids                 | R |
| 22 Ammonium phosphate                         | R | 94 Glue (water base)                      | R | 166 Silicone oil                    | R |
| 23 Ammonium sulfate                           | R | 95 Glycerine                              | T | 167 Silver nitrate                  | R |
| 24 Amyl acetate                               | N | 96 Grease                                 | T | 168 Skydrol                         | N |
| 25 Amyl alcohol                               | N | 97 Hydriodic acid                         | R | 169 Soap solutions                  | R |
| 26 Amyl chloride                              | N | 98 Hydro bromic acid                      | R | 170 Sodium bicarbonate              | R |
| 27 Aniline                                    | T | 99 Hydrochloric acid                      | R | 171 Sodium bisulfate                | R |
| 28 Aniline hydrochloride                      | T | 100 Hydrochloric acid (med.conc.)         | R | 172 Sodium bisulfite                | R |
| 29 Antimony salts                             | R | 101 Hydrochloric acid (conc.)             | R | 173 Sodium borate                   | R |
| 30 Aqua regia (75% HC1 25% HNO <sub>3</sub> ) | R | 102 Hydrocyanic acid                      | R | 174 Sodium carbonate                | R |
| 31 Aromatic hydrocarbons                      | N | 103 Hydrofluoric acid                     | R | 175 Sodium chlorate                 | R |
| 32 Arsenic salts                              | N | 104 Hydrogen peroxide (dil.)              | R | 176 Sodium chloride                 | R |
| 33 Barium salts                               | R | 105 Hydrogen peroxide (conc.)             | R | 177 Sodium ferrocyanide             | R |
| 34 Benzaldehyde                               | N | 106 Hydrogen sulfide                      | T | 178 Sodium hydrosulfite             | R |
| 35 Benzene                                    | N | 107 Hypochlorous acid                     | R | 179 Sodium hydroxide (dil.)         | R |
| 36 Benzene sulfonic acid                      | R | 108 Iodine and solutions                  | T | 180 Sodium hydroxide (med.conc.)    | R |
| 37 Benzoic acid                               | N | 109 Iron salts                            | R | 181 Sodium hydroxide (conc.)        | R |
| 38 Benzyl alcohol                             | N | 110 Isopropanol (IPA)                     | R | 182 Sodium hypochlorite (below 5%)  | R |
| 39 Bleaching liquors (non aromatic)           | R | 111 Kerosene                              | N | 183 Sodium hypochlorite (above 5%)  | R |
| 40 Boric acid                                 | R | 112 Ketones (water soluble)               | R | 184 Sodium nitrate                  | R |
| 41 Bromine                                    | R | 113 Lactic acids                          | R | 185 Sodium silicate                 | R |
| 42 Break fluid                                | R | 114 Laquer solvents                       | N | 186 Sodium sulfide                  | R |
| 43 Butane                                     | N | 115 Lactic acids                          | R | 187 Sodium sulfite                  | R |
| 44 Butyl acetate                              | N | 116 Lead Acetate                          | R | 188 Steam (up to 40 psi)            | T |
| 45 Buryl alcohol (Butanol)                    | T | 117 Linseed Oil                           | N | 189 Stearic acid                    | R |
| 46 Butyric acid                               | R | 118 Lithium hydroxide                     | R | 190 Styrene                         | N |
| 47 Calcium oxide (diluted)                    | R | 119 Magnesium chloride                    | R | 191 Sulfur chloride                 | R |
| 48 Calcium salts                              | R | 120 Magnesium sulfate                     | R | 192 Sulfur dioxide                  | R |
| 49 Carbon (di)sulfide                         | N | 121 Malic acid                            | R | 193 Sulfuric hezafluoride           | R |
| 50 Carbon dioxide                             | R | 122 Manganese salts                       | R | 194 Sulfuric trioxide               | R |
| 51 Carbon tetrachloride                       | T | 123 Mercury salts                         | R | 195 Sulfuric acid (dil.)            | R |
| 52 Chloroacetic acid                          | R | 124 Methane                               | N | 196 Sulfuric acid (med.conc.)       | R |
| 53 Chlorine (wet)                             | R | 125 Methanol (<40%)                       | R | 197 Sulfuric acid (conc.)           | R |
| 54 Chlorine (dry)                             | R | 126 Methanol (>40%)                       | T | 198 Sulfurous acid                  | R |
| 55 Chlorobenzene                              | N | 127 Methyl chloride                       | R | 199 Swimming pool water             | R |
| 56 Chlorobromomethane                         | N | 128 Methyl-ethyl-ketone (MEK)             | R | 200 Tannic acid                     | R |
| 57 Chloroform                                 | N | 129 Methylene chloride                    | R | 201 Tanning extracts                | R |
| 58 Chlorosulfonic acid                        | R | 130 Milk                                  | R | 202 Tataric acid                    | R |
| 59 Chromic acid                               | R | 131 Mixes acid (40% sulphuric 15% nitric) | R | 203 Tin salts                       | R |
| 60 Chromium salts                             | R | 132 Molybdenum disulfide                  | R | 204 Titanium salts                  | R |
| 61 Citric Acid                                | R | 133 Monoethanolamine                      | T | 205 Toluene (toluol)                | N |
| 62 coolant                                    | R | 134 Naphtha                               | N | 206 Trichloroacetic acid            | R |
| 63 Copper salts                               | R | 135 Natural gas                           | N | 207 Trichloroethylene               | N |
| 64 Cresol                                     | N | 136 Nickel salts                          | R | 208 Tri-sodium                      | R |
| 65 Cyclohexane                                | N | 137 Nitric acid (diluted)                 | R | 209 Turpentine                      | N |
| 66 Cyclohexanone                              | N | 138 Nitric acid (med. Conc.)              | R | 210 Urea                            | R |
| 67 Diacetone alcohol                          | R | 139 Nitric acid (conc.)                   | R | 211 Uric Acid                       | R |
| 68 Dimethyl formamide                         | R | 140 Nitrobenzene                          | N | 212 Vinyl plastisol                 | N |
| 69 Essential oils                             | R | 141 Nitrogen oxides                       | R | 213 Water                           | R |
| 70 Ethers                                     | N | 142 Nitrous acid                          | R | 214 Water (brine)                   | R |
| 71 Ethyl acetate                              | R | 143 Oils animal                           | T | 215 Xylene (Xylol)                  | N |
| 72 Ethyl alcohol (Ethanol)                    | T | 144 Oils mineral                          | T | 216 Zinc chloride                   | R |

R: resistant

N: not resistant

T: testing recommended before use