

WHO Prequalification of Vector Control Products

Declaration of product formulation for coated ITN fabric

| | |
|-------------------------|--------------------------------|
| Company | Example Net Manufacturing Ltd. |
| Product name | Example Nets Coated |
| PQ ref # | |
| Formulation code | ENM2274 |
| Version number | 001 |
| Effective date | 27/2/2020 |

Section A. Chemical compositions and formation of fabric intermediates

A1. Filament

Denier: 3 D

| Ingredient | Grade/CAS#/other | Supplier name(s) and address(es) | Amount | Purpose in formulation |
|----------------------------|------------------|----------------------------------|----------|------------------------|
| Polyethylene terephthalate | Grade: GDC 51 | Example Polymers Ltd., [address] | 1000g/kg | Carrier |
| | | Total | 1000g/kg | |

A2. Yarn

Filament count: 33

Denier: 100 D

A3. Fabric

Fabric weight: 40g/m²

Section B. Chemical compositions of formulated intermediates

B1. Coating suspension

| Ingredient | Grade/CAS#/Other | Supplier name(s) and address(es) | Amount | Purpose in formulation |
|---|-----------------------|------------------------------------|------------|------------------------|
| Deltamethrin SC 25% | Product code: DMSC25 | Example Pesticides Ltd., [address] | 200g/kg | AI Vehicle |
| Deltamethrin | N/A | | (50.0g/kg) | |
| Water | N/A | | (150g/kg) | |
| Polymer coating concentrate | Product code: CS834D5 | Example Chemical Co., [address] | 240g/kg | Binder |
| Poly(methacrylic acid co-methyl methacrylate) 1:1 | CAS# 25212-88-8 | Example Chemical Co., [address] | (100g/kg) | |
| Maize starch | CAS# 9005-25-8 | Example Chemical Co., [address] | (40g/kg) | Thickener |
| Water | N/A | Example Chemical Co., [address] | (100g/kg) | Vehicle |
| Silcofoam (silicones mixture) | Product code: SF816 | Example Chemical Co., [address] | 10g/kg | Anti-foaming agent |
| Water | N/A | On-site supply | 550g/kg | Vehicle |
| | | | Total | 1000g/kg |

Section C. Chemical composition of the coated fabric

C1. Wet fabric

Fabric weight (wet): 60g/m²

| Ingredient | Grade/CAS#/other | Amount by weight | Amount by area |
|---|------------------------------|------------------|---------------------|
| Fabric | See Sections A1-A3 | 667g/kg | 40g/m ² |
| Deltamethrin | From coating suspension (B1) | 17g/kg | 1.0g/m ² |
| Poly(methacrylic acid co-methyl methacrylate) 1:1 CAS# 25212-88-8 | From coating suspension (B1) | 33g/kg | 2.0g/m ² |
| Maize starch CAS# 9005-25-8 | From coating suspension (B1) | 13g/kg | 0.8g/m ² |
| Silcofoam SF816 | From coating suspension (B1) | 3g/kg | 0.2g/m ² |
| Water | From coating suspension (B1) | 267g/kg | 16g/m ² |
| | Total | 1000g/kg | |

Note: Target pick-up of the coating suspension is 50% of the weight of the net.

C2. Coated fabricFabric weight: 44g/m²

| Ingredient | Grade/CAS#/other | Amount by weight | Amount by area | Certified Limits | |
|---|------------------------------|------------------|---------------------|------------------|-------|
| | | | | Upper | Lower |
| Fabric | See Sections A1-A3 | 909g/kg | 40g/m ² | 910.4 | 907.6 |
| Deltamethrin | From coating suspension (B1) | 23g/kg | 1.0g/m ² | 28.8 | 17.3 |
| Poly(methacrylic acid co-methyl methacrylate) 1:1 CAS# 25212-88-8 | From coating suspension (B1) | 45g/kg | 2.0g/m ² | 56.3 | 53.8 |
| Maize starch CAS# 9005-25-8 | From coating suspension (B1) | 18g/kg | 0.8g/m ² | 22.5 | 13.5 |
| Silcofoam SF816 | From coating suspension (B1) | 5g/kg | 0.2g/m ² | 6.3 | 3.8 |
| Total | | 1000g/kg | | | |

Note: Water is lost by evaporation during the drying stage.

Previous versions

| Version number | Effective dates | Reason for replacement |
|----------------|-----------------|------------------------|
| | | |
| | | |
| | | |

Confidentiality

All formulation information provided on this form is considered confidential business information.

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| <p>Name of authorized contact person for the manufacturer: _____</p> <p>Signature of authorized contact person for the manufacturer: _____</p> <p style="text-align: right;">Date: _____</p> |
|---|

EXAMPLE