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ANNEX

LIST OF SPECIFIC HARMFUL ORGANISMS AND DISEASES OF QUALITY AFFECTING SIGNIFICANCE

Genus or species	Specific harmful organisms and diseases
<p>— <i>Begonia x hiemalis</i> Fotsch</p>	<p>Insects, mites and nematodes at all stages of their development</p> <ul style="list-style-type: none"> — Aleurodidae, in particular <i>Bemisia tabaci</i> — <i>Aphelenchoides</i> spp. — <i>Ditylenchus destructor</i> — <i>Meloidogyne</i> spp. — <i>Myzus ornatus</i> — <i>Otiorrhynchus sulcatus</i> — <i>Sciara</i> — Thysanoptera, in particular <i>Frankliniella occidentalis</i> <hr/> <p>Bacteria</p> <ul style="list-style-type: none"> — <i>Erwinia chrysanthemi</i> — <i>Rhodococcus fascians</i> — <i>Xanthomonas campestris</i> pv. <i>begoniae</i> <hr/> <p>Fungi</p> <ul style="list-style-type: none"> — Powdery mildew — Stem rot pathogens (<i>Phytophthora</i> spp., <i>Pythium</i> spp. and <i>Rhizoctonia</i> spp.) <hr/> <p>Viruses and virus-like organisms, and in particular</p> <ul style="list-style-type: none"> — Leafcurl disease — Tospoviruses (Tomato spotted wilt virus, Impatiens necrotic spot virus)
<p>— <i>Citrus</i></p>	<p>Insects, mites and nematodes at all stages of their development</p> <ul style="list-style-type: none"> — <i>Aleurothrixus floccosus</i> (Mashell) — <i>Meloidogyne</i> spp. — <i>Parabemisia myricae</i> (Kuwana) — <i>Tylenchulus semipenetrans</i> <hr/> <p>Fungi</p> <ul style="list-style-type: none"> — <i>Phytophthora</i> spp. <hr/> <p>Viruses and virus-like organisms, and in particular</p> <ul style="list-style-type: none"> — Viroids such as exocortis, cachexia-xyloporosis — Diseases that induce psorosis - like young leaves symptoms such as:

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	<p>psorosis, ring spot, crustacortis, impietratura, concave gum</p> <p>— Infectious variegation</p> <p>— Citrus leaf rugose</p>
— <i>Dendranthema x Grandiflorum</i> (Ramat) Kitam	<p>Insects, mites and nematodes at all stages of their development</p> <p>— Agromyzidae</p> <p>— Aleurodidae, in particular <i>Bemisia tabaci</i></p> <p>— <i>Aphelencoides</i> spp.</p> <p>— <i>Diarthronomia chrysanthemi</i></p> <p>— Lepidoptera, in particular <i>Cacoecimorpha pronubana</i>, <i>Epichoristodes Acerbella</i></p> <p>— Thysanoptera, in particular <i>Frankliniella occidentalis</i></p> <p>Bacteria</p> <p>— <i>Agrobacterium tumefaciens</i></p> <p>— <i>Erwinia chrysanthemi</i></p> <p>Fungi</p> <p>— <i>Fusarium oxisporum</i> spp. <i>chrysanthemi</i></p> <p>— <i>Puccinia chrysanthemi</i></p> <p>— <i>Pythium</i> spp.</p> <p>— <i>Rhizoctonia solani</i></p> <p>— <i>Verticillium</i> spp.</p> <p>Viruses and virus-like organisms, and in particular</p> <p>— Chrysanthemum B mosaic virus</p> <p>— Tomato aspermy cucumovirus</p>
— <i>Dianthus Caryophyllus</i> L. and hybrids	<p>Insects, mites and nematodes at all stages of their development</p> <p>— Agromyzidae</p> <p>— Aleurodidae, in particular <i>Bemisia tabaci</i></p> <p>— Thysanoptera, in particular <i>Frankliniella occidentalis</i></p> <p>— Lepidoptera, in particular <i>Cacoecimorpha pronubana</i>, <i>Epichoristodes acerbella</i></p> <p>Fungi</p> <p>— <i>Alternaria dianthi</i></p> <p>— <i>Alternaria dianthicola</i></p> <p>— <i>Fusarium oxisporum</i> f. spp. <i>dianthi</i></p> <p>— <i>Mycosphaerella dianthi</i></p> <p>— <i>Phytophthora nicotiana</i> spp. <i>parasitica</i></p> <p>— <i>Rhizoctonia solani</i></p>

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	<ul style="list-style-type: none">— Stem rot: <i>Fusarium</i> spp. and <i>Pythium</i> spp.— <i>Uromyces dianthi</i>
	Viruses and virus-like organisms, and in particular <ul style="list-style-type: none">— Carnation etched ring caulimovirus— Carnation mottle carmovirus— Carnation necrotic fleck closterovirus— Tospoviruses (Tomato spotted wilt virus, Impatiens necrotic spot virus)
— <i>Euphorbia pulcherrima</i> (Wild ex Kletzch)	Insects, mites and nematodes at all stages of their development <ul style="list-style-type: none">— Aleurodidae, in particular <i>Bemisia tabaci</i>
	Bacteria <ul style="list-style-type: none">— <i>Erwinia chrysanthemi</i>
	Fungi <ul style="list-style-type: none">— <i>Fusarium</i> spp.— <i>Pythium ultimum</i>— <i>Phytophthora</i> spp.— <i>Rhizoctonia solani</i>— <i>Thielaviopsis basicola</i>
	Viruses and virus-like organisms, and in particular <ul style="list-style-type: none">— Tospoviruses (Tomato spotted wilt virus, Impatiens necrotic spot virus)
— <i>Gerbera</i> L.	Insects, mites and nematodes at all stages of their development <ul style="list-style-type: none">— Agromyzidae— Aleurodidae, in particular <i>Bemisia tabaci</i>— <i>Aphelenchoides</i> spp.— <i>Lepidoptera</i>— <i>Meloidogyne</i>— Thysanoptera, in particular <i>Frankliniella occidentalis</i>
	Fungi <ul style="list-style-type: none">— <i>Fusarium</i> spp.— <i>Phytophthora cryptogea</i>— Powdery mildew— <i>Rhizoctonia solani</i>— <i>Verticillium</i> spp.
	Viruses and virus-like organisms, and in particular <ul style="list-style-type: none">— Tospoviruses (Tomato spotted wilt virus, Impatiens necrotic spot virus)

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<p>— <i>Gladiolus</i> L.</p>	<p>Insects, mites and nematodes at all stages of their development</p> <p>— <i>Ditylenchus dipsaci</i></p> <p>— Thysanoptera, in particular <i>Frankliniella occidentalis</i></p> <hr/> <p>Bacteria</p> <p>— <i>Pseudomonas marginata</i></p> <p>— <i>Rhodococcus fascians</i></p> <hr/> <p>Fungi</p> <p>— <i>Botrytis gladiolorum</i></p> <p>— <i>Curvularia trifolii</i></p> <p>— <i>Fusarium oxisporum</i> spp. <i>gladioli</i></p> <p>— <i>Penicillium gladioli</i></p> <p>— <i>Sclerotinia</i> spp.</p> <p>— <i>Septoria gladioli</i></p> <p>— <i>Urocystis gladiolicola</i></p> <p>— <i>Uromyces trasversalis</i></p> <hr/> <p>Viruses and virus-like organisms, and in particular</p> <p>— Aster yellow mycoplasm</p> <p>— Corky pit agent</p> <p>— Cucumber mosaic virus</p> <p>— <i>Gladiolus ringspot virus</i> (syn. <i>Narcissus latent virus</i>)</p> <p>— Tobacco rattle virus</p> <hr/> <p>Other harmful organisms:</p> <p>— <i>Cyperus esculentus</i></p>
<p>— <i>Lilium</i> L.</p>	<p>Insects, mites and nematodes at all stages of their development</p> <p>— <i>Aphelenchoides</i> spp.</p> <p>— <i>Rhizoglyphus</i> spp.</p> <p>— <i>Pratylenchus penetrans</i></p> <p>— <i>Rotylenchus robustus</i></p> <p>— Thysanoptera, in particular <i>Frankliniella occidentalis</i></p> <hr/> <p>Bacteria</p> <p>— <i>Erwinia carotovora</i> subsp. <i>carotovora</i></p> <p>— <i>Rhodococcus fascians</i></p> <hr/> <p>Fungi</p> <p>— <i>Cylindrocarpon destructans</i></p> <p>— <i>Fusarium oxisporum</i> f. sp. <i>lilii</i></p> <p>— <i>Pythium</i> spp.</p> <p>— <i>Rhizoctonia</i> spp.</p> <p>— <i>Rhizopus</i> spp.</p> <p>— <i>Sclerotium</i> spp.</p> <hr/> <p>Viruses and virus-like organisms, and in particular</p>

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	<ul style="list-style-type: none"> — Cucumber mosaic virus — Lily symptomless virus — Lily virus x — Tobacco rattle virus — Tulip breaking virus <hr/> <p>Other harmful organisms</p> <ul style="list-style-type: none"> — <i>Cyperus esculentus</i>
<p>— <i>Malus</i> Miller</p>	<p>Insects, mites and nematodes at all stages of their development</p> <ul style="list-style-type: none"> — <i>Anarsia lineatella</i> — <i>Eriosoma lanigerum</i> — Scale insects, in particular <i>Epidiaspis leperii</i>, <i>Pseudaulacaspis pentagona</i>, <i>Quadraspidiotus perniciosus</i> <hr/> <p>Bacteria</p> <ul style="list-style-type: none"> — <i>Agrobacterium tumefaciens</i> — <i>Pseudomonas syringae</i> pv. <i>syringae</i> <hr/> <p>Fungi</p> <ul style="list-style-type: none"> — <i>Armillariella mellea</i> — <i>Chondrostereum purpureum</i> — <i>Nectria galligena</i> — <i>Phytophthora cactorum</i> — <i>Rosellinia necatrix</i> — <i>Venturia</i> spp. — <i>Verticillium</i> spp. <hr/> <p>Viruses and virus-like organisms All</p>
<p>— <i>Narcissus</i> L.</p>	<p>Insects, mites and nematodes at all stages of their development</p> <ul style="list-style-type: none"> — <i>Aphelenchoides subtenuis</i> — <i>Ditylenchus destructor</i> — <i>Eumerus</i> spp. — <i>Merodon equestris</i> — <i>Pratylenchus penetrans</i> — Rhizoglyphidae — Tarsonemidae <hr/> <p>Fungi</p> <ul style="list-style-type: none"> — <i>Fusarium oxysporum</i> f. sp. <i>narcissi</i> — <i>Sclerotinia</i> spp. — <i>Sclerotium bulborum</i> <hr/> <p>Viruses and virus-like organisms, and in particular</p> <ul style="list-style-type: none"> — Tobacco rattle virus — Narcissus white streak agent — Narcissus yellow stripe virus <hr/> <p>Other harmful organisms</p> <ul style="list-style-type: none"> — <i>Cyperus esculentus</i>

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<p>[^{F1}Palmae, as regards the following genera and species <i>Areca catechu</i> L. <i>Syagrus romanzoffiana</i> (Cham.) Glassman <i>Arenga pinnata</i> (Wurmb) Merr. <i>Bismarckia</i> Hildebr. & H. Wendl. <i>Borassus flabellifer</i> L. <i>Brahea armata</i> S. Watson <i>Brahea edulis</i> H. Wendl. <i>Butia capitata</i> (Mart.) Becc. <i>Calamus merrillii</i> Becc. <i>Caryota maxima</i> Blume <i>Caryota cumingii</i> Lodd. ex Mart. <i>Chamaerops humilis</i> L. <i>Cocos nucifera</i> L. <i>Corypha utan</i> Lam. <i>Copernicia</i> Mart. <i>Elaeis guineensis</i> Jacq. <i>Howea forsteriana</i> Becc. <i>Jubaea chilensis</i> (Molina) Baill. <i>Livistona australis</i> C. Martius <i>Livistona decora</i> (W. Bull) Dowe <i>Livistona rotundifolia</i> (Lam.) Mart. <i>Metroxylon sagu</i> Rottb. <i>Roystonea regia</i> (Kunth) O.F. Cook <i>Phoenix canariensis</i> Chabaud <i>Phoenix dactylifera</i> L. <i>Phoenix reclinata</i> Jacq. <i>Phoenix roebelenii</i> O'Brien <i>Phoenix sylvestris</i> (L.) Roxb. <i>Phoenix theophrasti</i> Greuter <i>Pritchardia</i> Seem. & H. Wendl. <i>Ravenea rivularis</i> Jum. & H. Perrier <i>Sabal palmetto</i> (Walter) Lodd. ex Schult. & Schult.f. <i>Trachycarpus fortunei</i> (Hook.) H. Wendl. <i>Washingtonia</i> H. Wendl.</p>	<p>Insects, mites and nematodes at all stages of their development — <i>Rhynchophorus ferrugineus</i> (Olivier)]</p>
<p>— <i>Pelargonium</i> L.</p>	<p>Insects, mites and nematodes at all stages of their development — Aleurodidae, in particular <i>Bemisia tabaci</i> — Lepidoptera — Thysanoptera, in particular <i>Frankliniella occidentalis</i></p>
	<p>Bacteria — <i>Rhodococcus fascians</i> — <i>Xanthomonas campestris</i> pv. <i>pelargonii</i></p>
	<p>Fungi</p>

	<ul style="list-style-type: none"> — <i>Puccinia pelargonii zonalis</i> — Stem rot pathogens (<i>Botrytis</i> spp., <i>Pythium</i> spp.) — <i>Verticillium</i> spp.
	<p>Viruses and virus-like organisms, and in particular</p> <ul style="list-style-type: none"> — Pelargonium flower break carmovirus — Pelargonium leaf curl tomosvirus — Pelargonium line pattern virus — Tospoviruses (Tomato spotted wilt virus, Impatiens necrotic spot virus)
— Phoenix	<p>Insects, mites and nematodes at all stages of their development</p> <ul style="list-style-type: none"> — Thysanoptera <p>Fungi</p> <ul style="list-style-type: none"> — <i>Exosporium palmivorum</i> — <i>Gliocladium wermoeseni</i> — <i>Graphiola phoenicis</i> — <i>Pestalozzia Phoenicis</i> — <i>Pythium</i> spp. <p>Viruses and virus-like organisms All</p>
— <i>Pinus nigra</i>	<p>Insects, mites and nematodes at all stages of their development</p> <ul style="list-style-type: none"> — <i>Blastophaga</i> spp. — <i>Rhyacionia buoliana</i> <p>Fungi</p> <ul style="list-style-type: none"> — <i>Ophodermium seditiosum</i> <p>Viruses and virus-like organisms, and in particular All</p>
<i>Prunus</i> L.	<p>Insects, mites and nematodes at all stages of their development</p> <ul style="list-style-type: none"> — <i>Capnodis tenebrionis</i> — <i>Meloidogyne</i> spp. — Scale insects, in particular <i>Epidiaspis leperii</i>, <i>Pseudaulacaspis pentagona</i>, <i>Quadraspidiotus perniciosus</i> <p>Bacteria</p> <ul style="list-style-type: none"> — <i>Agrobacterium tumefaciens</i> — <i>Pseudomonas syringae</i> pv. <i>mors prunorum</i> — <i>Pseudomonas syringae</i> pv. <i>syringae</i> <p>Fungi</p> <ul style="list-style-type: none"> — <i>Armillariella mellea</i>

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	<ul style="list-style-type: none"> — <i>Chondrostereum purpureum</i> — <i>Nectria galligena</i> — <i>Rosellinia necatrix</i> — <i>Taphrina deformans</i> — <i>Verticillium</i> spp.
	<p>Viruses and virus-like organisms, and in particular</p> <ul style="list-style-type: none"> — Prune dwarf virus — Prunus necrotic ringspot virus
— <i>Pyrus</i> L.	<p>Insects, mites and nematodes at all stages of their development</p> <ul style="list-style-type: none"> — <i>Anarsia lineatella</i> — <i>Eriosoma lanigerum</i> — Scale insects, in particular <i>Epidiaspis leperii</i>, <i>Pseudaulacaspis pentagona</i>, <i>Quadraspidiotus perniciosus</i> <p>Bacteria</p> <ul style="list-style-type: none"> — <i>Agrobacterium tumefaciens</i> — <i>Pseudomonas syringae</i> pv. <i>syringae</i> <p>Fungi</p> <ul style="list-style-type: none"> — <i>Armillariella mellea</i> — <i>Chondrostereum purpureum</i> — <i>Nectria galligena</i> — <i>Phytophthora</i> spp. — <i>Rosellinia necatrix</i> — <i>Verticillium</i> spp. <p>Viruses and virus-like organisms All</p>
— <i>Rosa</i>	<p>Insects, mites and nematodes at all stages of their development</p> <ul style="list-style-type: none"> — Lepidoptera, in particular <i>Epichoristodes acerbella</i>, <i>Cacoecimorpha pronubana</i> — <i>Meloidogyne</i> spp. — <i>Pratylenchus</i> spp. — <i>Tetranychus urticae</i> <p>Bacteria</p> <ul style="list-style-type: none"> — <i>Agrobacterium tumefaciens</i> <p>Fungi</p> <ul style="list-style-type: none"> — <i>Chondrostereum purpureum</i> — <i>Coniothyrium</i> spp. — <i>Diplocarpon rosae</i> — <i>Peronospora sparsa</i> — <i>Phragmidium</i> spp. — <i>Rosellinia necatrix</i> — <i>Sphaeroteca pannosa</i>

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— *Verticillium* spp.

Viruses and virus-like organisms, and in particular

— Apple mosaic virus

— Arabis mosaic nepovirus

— Prunus necrotic ringspot virus

Textual Amendments

- F1** Inserted by Commission Implementing Directive (EU) 2018/484 of 21 March 2018 amending Directive 93/49/EEC as regards requirements to be fulfilled by the propagating material of certain genera or species of Palmae in respect of *Rhynchophorus ferrugineus* (Olivier).