

STATE OF ISRAEL
MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT
Plant Protection and Inspection Services

P.O. Box 78, Bet-Dagan 50250, Israel Tel: 972-3-9681598 Fax: 972-3-9681571



TREATMENTS
AS REQUIRED BY
THE PLANT IMPORT REGULATIONS
2009

UPDATED
AUGUST 2009



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1. FUMIGATION TREATMENTS

1.1 FUMIGATION WITH METHYL BROMIDE

PRODUCTS: Cashew, pistachio, hazelnut, Chestnut, walnut, almond.
(*Anacardium occidentale*, *Pistacia vera* L., *Crylus* L. *Castanea sativa* Mill., *Juglans regia* L., *Prunus dulcis* (Mill) Webb).

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
25+	16	24
21-24	24	24
16-20	32	24
10-15	48	24

Remarks: _____

PRODUCTS: Peanuts for consumption (*Arachis hypogaea* L.)

PEST: External pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
25+	16	24
21-24	24	24
16-20	32	24
10-15	48	24

Remarks: _____

PRODUCTS: Logs and timber

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
20+	80	16

Remarks: Logs with diameter smaller than 50mm reduce the exposure period to 8 hours. _____



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PRODUCTS: Sunflower seeds (*Helianthus annuus*)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
10+	32	24

Remarks: There is an Alternative treatment – Phosphine fumigation

PRODUCTS: Bamboo, Straw and Rattan products

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
21+	48	24
16-20	56	24
10-15	64	24

Remarks:

PRODUCTS: Cotton fibers

PEST: External pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15.5+	48	24

Remarks: External pest to the baled or bulk commodities

PRODUCTS: Dry branches and flowers

PEST: External pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
21+	48	24
15-20	56	24

Remarks:



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PRODUCTS: Dried coconuts without the husk (*Cocos sp.*)

PEST: External pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
20+	32	24

Remarks: _____

PRODUCTS: Wood bark , Woodchips

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
21+	48	16
10-20	80	16

Remarks: _____

PRODUCTS: Broomcorn and broomcorn articles

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	40	16

Remarks: _____



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1.2 FUMIGATION WITH PHOSPHINE

PRODUCTS: Leucospermum seeds (*Leucospermum sp.*)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks: _____

PRODUCTS: Acer Seeds (*Acer sp.*)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks: _____

PRODUCTS: Oak Seeds (*Quercus sp.*)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks: _____

PRODUCTS: Pea Seeds (*Pisum L.*)

PEST: Internal and external pests

TREATMENT: Fumigation with Phosphine + CARBOXIN 200 g/l + THIRAM 200 g/l

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2 3 litter per ton	96

Remarks: _____



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PRODUCTS: Peach Seeds (*Prunus persica* L.)

PEST: Internal and external pests

Temperature (C°)	Dosage Rate (gr/M³)	Exposure Period (Hour)
15+	2	96

Remarks: _____

PRODUCTS: Leucadendron Seeds (*Leucadendron* spp.)

PEST: Internal and external pests

Temperature (C°)	Dosage Rate (gr/M³)	Exposure Period (Hour)
15+	2	96

Remarks: _____

PRODUCTS: Araucaria Seeds (*Araucaria Juss*)

PEST: Internal and external pests

Temperature (C°)	Dosage Rate (gr/M³)	Exposure Period (Hour)
15+	2	96

Remarks: _____

PRODUCTS: Cherry Seeds (*Prunus avium* L.)

PEST: Internal and external pests

Temperature (C°)	Dosage Rate (gr/M³)	Exposure Period (Hour)
15+	2	96

Remarks: _____



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PRODUCTS: Sunflower Seeds (*Helianthus annuus*)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks: There is an Alternative treatment – Methyl bromide fumigation

PRODUCTS: Apricot Seeds (*Prunus armeniaca L.*)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks:

PRODUCTS: Juniperus Seeds (*Juniperus sp.*)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks:

PRODUCTS: Protea Seeds (*Protea sp.*)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks:



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PRODUCTS: Broad Beans Seeds (*Vicia faba* L.)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks: _____

PRODUCTS: Poulownia Seeds (*Paulownia* sp.)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks: _____

PRODUCTS: Sago Palm Seeds (*Cycas* sp.)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks: _____

PRODUCTS: Castanospermum Seeds (*Castanospermum* Cunn.)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks: _____



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PRODUCTS: Plum Seeds (*Prunus domestica* L.)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks: _____

PRODUCTS: Almond Seeds (*Prunus dulcia* (Mill).)

PEST: Internal and external pests

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
15+	2	96

Remarks: _____



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2. HEAT TREATMENTS

2.1 HOT WATER TREATMENTS

PRODUCTS: Amaryllis bulbs (*Amaryllis* spp.)

PEST: Bulb flies

<i>Temperature (C°)</i>	<i>Exposure Period (Minutes)</i>
43.5	120

Remarks: _____

PRODUCTS: Broccoli seeds (*Brassica oleracea*)

PEST:

<i>Temperature (C°)</i>	<i>Exposure Period (Minutes)</i>

Remarks: Product requirements updated. This treatment removed from the Requirements.

PRODUCTS: Dahlia bulbs (*Dahlia* spp.)

PEST: Nematodes

<i>Temperature (C°)</i>	<i>Exposure Period (Minutes)</i>
47.8	30

Remarks: _____



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PRODUCTS: Mustard seeds (*Brassica juncea*)

PEST:

Temperature (C°)	Exposure Period (Minutes)

Remarks: Product requirements updated. This treatment removed from the Requirements.

PRODUCTS: Nasturtium seeds (*Tropaeolum major*)

PEST:

Temperature (C°)	Exposure Period (Minutes)

Remarks: Product requirements updated. This treatment removed from the Requirements.

PRODUCTS: Cabbage seeds (*Brassica oleracea* var. *capitata* (alba))

PEST:

Temperature (C°)	Exposure Period (Minutes)

Remarks: Product requirements updated. This treatment removed from the Requirements.

PRODUCTS: rape seeds (*Brassica napus* spp.)

PEST:

Temperature (C°)	Exposure Period (Minutes)

Remarks: Product requirements updated. This treatment removed from the Requirements.



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PRODUCTS: Cauliflower seeds (*Brassica oleracea* var. *botrytis*)

PEST:

<i>Temperature (C°)</i>	<i>Exposure Period (Minutes)</i>

Remarks: Product requirements updated. This treatment removed from the Requirements.

PRODUCTS: Liatris bulbs (*Liatris* spp.)

PEST: Nematodes

<i>Temperature (C°)</i>	<i>Exposure Period (Minutes)</i>
48	60

Remarks:

PRODUCTS: turnip seeds (*Brassica rapa*)

PEST:

<i>Temperature (C°)</i>	<i>Exposure Period (Minutes)</i>

Remarks: Product requirements updated. This treatment removed from the Requirements.

PRODUCTS: Narcissus bulbs (*Narcissus* spp.)

PEST: Bulbs flies

TREATMENT: Hot water + FORMALDEHYDE 365 g/l

<i>Temperature (C°)</i>	<i>Dosage Rate (gr/M³)</i>	<i>Exposure Period (Hour)</i>
43.5	0.7 %	120

Remarks: Apply FORMALDEHYDE during the hot water treatment



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3. IMMERSION TREATMENTS

3.1 DISINFECTION IMMERSION TREATMENTS

PRODUCTS: Persimmon seeds (*Diospyros spp.*)

PEST: External germs

<i>Disinfectant</i>	<i>Concentration</i>	<i>Exposure Period (Hour)</i>
Sodium Hypochlorite	0.5%	2

Remarks: _____

PRODUCTS: Citrus seeds (*Citrus spp.*)

PEST: External germs

<i>Disinfectant</i>	<i>Concentration</i>	<i>Exposure Period (Hour)</i>
Sodium Hypochlorite	0.5%	2

Remarks: _____



3.2 DISINFESTATION TREATMENTS

PRODUCTS: Eggplant seeds (*Solanum melongena*)

PEST: External germs, Fungi

<i>Disinfectant</i>	<i>Concentration</i>	<i>Exposure Period (Hour)</i>
Sodium Hypochlorite	0.5%	2
THIRAM	2 (gr/Kg)	-

Remarks: _____

PRODUCTS: Cosmos seeds (*Cosmos Cav.*)

PEST: Fungi

<i>Disinfectant</i>	<i>Concentration</i>	<i>Exposure Period (Hour)</i>
THIRAM	2 (gr/Kg)	-

Remarks: _____

PRODUCTS: clover seeds (*Trifolium L.*)

PEST: Fungi

<i>Disinfectant</i>	<i>Concentration</i>	<i>Exposure Period (Hour)</i>
THIRAM	2 (gr/Kg)	-

Remarks: _____

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4. COLD TREATMENTS

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5. IRRADIATION TREATMENTS

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