

TECHNICAL DATA SHEET

NFAI-Permethrin

NON FLAMMABLE AIRCRAFT INSECTICIDE PERMETHRIN

Specially Formulated for Aeronautical Use

DESCRIPTION

NFAI-Permethrin, Non Flammable Aircraft Insecticide Permethrin, is a non-flammable aircraft approved insecticide compliant with international Health regulations and WHO's recommendations for biosecurity aircraft disinsection. It is used for Pre-embarkation aircraft disinsection method.

FEATURES & BENEFITS

- Non-flammable aerosol.
- Dry diffusion for maximum efficacy.
- Compliant with International Health Regulations' (IHR), World Health Organization's (WHO) & IATA's recommendations.
- Effective on many flying and crawling insects (Aedes, Anopheles, Culex Mosquitoes; Musca Domestica...) known as vectors of serious diseases (Malaria, Zika, Dengue...).
- Compliant with aircraft manufacturer's specifications.
- Total mortality in less than 5 minutes with residual effect.
- Available in different sizes, with a one-shot or multi-shot nozzle, to optimize and perfect adapt quantity of insecticide used aircraft
- Active ingredient: 2% w/w permethrin CAS (52645-53-1).
- **Recyclable Aluminum can**



Calculated Carbon Footprint

APPLICATION

- Disinsection of the cabin and cockpit areas
- Product suitable for use in confined spaces
- Insecticide to be used in accordance with WHO's recommended disinsection procedure 'pre-embarkation' disinsection method

DIRECTIONS FOR USE

- Ensure all overhead and side wall lockers and toilets are left open
- Air conditioning system should be switched off.
- Hold one can of PSA NFAI-Permethrin and start spraying from the back of the aircraft, moving Forward keeping the can at arm's length.
- Direct the can to the open overhead lockers and ceiling, keeping a steady walking pace, no more than one step or one row per second.

TECHNICAL DATA SHEET

- Once this side is complete, switch across to the other side of the aisle, spraying all the way until you reach the rear of the aircraft. If more than one can is required for treatment, follow the same method by holding one can in each hand. If four cans are required, two crew members should carry out this treatment.
- Spray all galleys, lift access areas, lavatories, coat lockers, crew rest areas, using an up and down motion for three seconds.
- The flight deck will also need to be sprayed for three seconds. Be sure to direct the spray away from aircraft equipment.
- Do not spray directly on food, food preparation areas or food utensils.
- 'Single-shot' Aerosol:** product is released completely, in one continuous spray. Suitable for cabin treatment. Press hard on the tab until it locks. After activation (tab locked), the cannister must be held at the lowest part of its body in a vertical position until complete discharge. Walk through the cabin spraying at a rate of 1 step or 1 row of seats per second (equivalent to an average of 1g per second), holding the aerosol vertically by its body, at arm's length at shoulder level. Direct the spray towards the ceiling and slightly behind the user until it is completely empty.
- 'Multi-shot' Aerosol:** multiple-use actuator, best suitable to complete treatment of small areas: cockpit, crew rest and small bulk treatment. Press the actuator, holding the aerosol vertically. Keep pressed until the right quantity is released, spraying at an average discharge rate of 1g per second (ie. Press the actuator 3 to 4 seconds, per 10m³ of Cabin volume).
- Application rate as per WHO recommendations (2nd Edition – Nov.2023):**
35g to treat 100 m³ of Cabin volume.

Use biocides with caution. Before use, read the label and information concerning the product

ORDERING INFORMATION

Product Code	Product	Size	Nozzle	Volume treated (m3)	Units /carton	CO ₂ / units (EXW Paris)
AR0006460	NFAI-30P ONE-SHOT (#210 P/P)	30 g	One-shot	90	100	36,93 Kg
AR0005542	NFAI-30P MULTI-SHOT (#210 P/N)	30 g	Multi-shot	90	100	36,93 Kg
AR0000313	NFAI-40P ONE-SHOT (#216A)	40 g	One-shot	120	100	49,20 Kg
AR0000299	NFAI-40P MULTI-SHOT #217A	40 g	Multi-shot	120	100	49,20 Kg
AR0000312	NFAI-60P ONE-SHOT (#216)	60 g	One-shot	170	100	73,72 Kg
AR0000300	NFAI-60P MULTI-SHOT (#217)	60 g	Multi-shot	170	100	73,72 Kg
AR0000309	NFAI-100P ONE-SHOT (#203 P/P)	100 g	One-shot	300	50	122,82 Kg
AR0000301	NFAI-100P MULTI-SHOT (#203 P/N)	100 g	Multi-shot	300	50	122,82 Kg



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AND CARBON OFFSET FOR CO₂ NEUTRAL PRODUCTS**



PACKAGING

Units per carton	Carton dimensions (cm)	Parcels per pallet	Parcels per layer	Number of layers	Pallet dimensions (cm)	Pallet Height (cm)
100	37 x 37 x 16	42	6	7	120 x 80	122
50	46.5 x 26 x 19.5	36	6	6	120 x 80	122

TECHNICAL DATA SHEET

CHARACTERISTICS

Active ingredient:	Permethrin – ratio 25/75 CAS (52645-53-1) ...2% w/w
Aspect:	Colourless to slightly yellow liquid
Fragrance:	Characteristic – peach fragrance
Flammability:	Non-flammable aerosol
Packaging:	Recyclable aluminium can. Resistance to pressure up to 18 bars
Flow rate:	Between 0.8 & 1.2 g/s as per WHO recommendations

Please consult the material Safety Data Sheet for further information.

CERTIFICATIONS AND ACREDITATIONS

- Aerosol product NFAI-Permethrin:
 - Compatible with aircraft materials: AMS 1450 A
 - Referenced on Airbus Consumable Material List: 11ABB2
 - Compliant with WHO's recommendations for disinsection of aircraft
- Active ingredient:
 - Assessed by W.H.O. as part of the IPCS (Int'l Programme on Chemical Safety) 1989
 - Permethrin approved as per the EU Biocidal Products Regulation N°528/2012, for use as Product Type 18 (Commission Implementing Regulation (EU) n°1090/2014).
- PSA certified to ISO 9001:2015
- NCAGE: FA2X6

WARNING

Pressurised container: May burst if heated. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

PRECAUTION

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Smoking. Do not pierce or burn, even after use. Avoid breathing vapours. Avoid release to the environment. If skin irritation or rash occurs: Get medical advice/attention. Collect spillage. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

STORAGE AND DISPOSAL

Store in a cool, dry, ventilated place. Keep out of reach of children. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

WARRANTY – All statements, information and data presented herein are believed to be accurate and reliable but are not to be taken as a guarantee, expressed or implied, for which seller assumes legal responsibility and they are offered solely for your consideration, investigation and verification. Statements or suggestions concerning possible use of this product are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe on any patent.

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