

TECHNICAL DATA SHEET

NFAI-Phenothrin (T)

NON FLAMMABLE AIRCRAFT INSECTICIDE PHENOTHRIN

(1R-Trans Phenothrin)

Insecticide Specially Formulated for Aeronautical Use

DESCRIPTION

NFAI-Phenothrin (T) - Non Flammable Aircraft Insecticide Phenothrin (1R-Trans Phenothrin), is a non-flammable aircraft approved insecticide, compliant with International Health regulations (IHR) and World Health Organization's (WHO) recommendations for global biosecurity aircraft disinsection (control of vectors of transmission of diseases and biohazards). NFAI-Phenothrin (T) formulation is compatible with aeronautical materials based on aircraft manufacturer tests. Its dry and controlled spray allow for optimal efficacy on insects. Combining fast knock-down effect and rapid mortality for best proven bio-efficacy, NFAI-Phenothrin (T) is used for cabin and holds 'pre-departure' disinsection as well as any necessary 'on-arrival' cabin and cargo holds aircraft disinsection methods. It complies with the latest EU Biocidal Product Regulation and was specially formulated with low very Global Warming Potential (GWP) propellant.

FEATURES & BENEFITS

- EU No. 528/2012 biocidal regulation approved (March 2019).
- Non-flammable aerosol with dry diffusion for maximum efficacy.
- Compliant with IHR, 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.
- Manufactured in Europe.
- 30, 40, 60 and 100g formats, with single-shot or multi-shot nozzle, to optimize and perfectly adapt quantity of used insecticide.
- Active ingredient: 2% w/w 1R-Trans Phenothrin (CAS 26046-85-5)
- HFO-1234ze propellant - Low Global Warming Potential (GWP<1).
- Recyclable Aluminum can and plastic cap.
- Calculated and Compensated Carbon Footprint



APPLICATION

- Disinsection of the cabin, cockpit, and cargo holds.
- Product suitable for use in confined spaces.
- Insecticide to be used in accordance with WHO's recommended aircraft disinsection "pre-departure", "pre-departure cargo holds", "on-arrival" and "on-arrival cargo holds" methods.

DIRECTIONS FOR USE

- Refer to your onboard manual for the number of cans to be used for each specific aircraft.
- Ensure all overhead and side wall lockers and toilets are left open
- Air conditioning system should be switched off.
- Hold one can of NFAI-Phenothrin (T) and start spraying from the back of the aircraft, moving forward keeping the can at arm's length.



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- 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.
- 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:** Content is released completely, in one continuous spray. Suitable for cabin treatment and for holds. 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, at arm's length at shoulder level, oriented towards the ceiling and slightly behind the user, until complete discharge. Walk through the cabin spraying at a rate of 1 step or 1 row of seats per second (average flow is of 1g per second).
- **'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):**
 - Cabin: 35g / 100 m³
 - When used in Holds with Single-Shot actuator in holds as an alternative to the 2% Permethrin + 2% d-Phenothrin combination aerosol formulation (special circumstances such as no authorization of the combination aerosol ; subject to approval by the country authority):
 - 140g / 100 m³ for Fwd Hold and Aft Hold of commercial passenger or freighter aircraft.
 - 55g / 100 m³ for Main Deck Cargo of a freighter aircraft.

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

CHARACTERISTICS

Aspect:	Colourless to slightly yellow liquid.
Fragrance:	Characteristic – Peach fragrance.
Flammability:	Non-flammable.
Packaging:	Recyclable aluminium can. Resistance to pressure up to 18 bars.
Flow rate:	Between 0.8 & 1.2 g/s as per WHO recommendations.
Shelf life:	2 years.

Please consult the Safety Data Sheet for further information.

APPROVALS & CERTIFICATIONS

- NFAI-Phenothrin (T) aerosol product:
 - AMS1450 - BSS7434
 - Airbus CML 11ABB2, 11ADC1
 - Air France FITS 58-058-01
 - NATO NSN :

6840-14-6023808	(30g Multi-Shot)
6840-14-5947644	(40g One-Shot)
6840-14-5874817	(60g One-Shot)

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- Approved on March 27th, 2019, as a biocidal product as part of EU Biocidal Products Regulation N°528/2012.
- Active ingredient:
 - Phenothrin Assessed by WHO as part of the IPCS (Int'l Programme on Chemical Safety)
 - Approved as per the EU Biocidal Products Regulation N°528/2012, for use as Product Type 18 (Directive n° 2013/41/UE)
- PSA certified ISO 9001:2015.
- PSA NATO Cage code: FA2X6

ORDERING INFORMATION

Product Code	Product	Size	Nozzle	Volume treated (m³)	Units / carton	CO2 / unit (EXW Paris)
AR0006698	NFAI-30T MULTI-SHOT (210 T/N)	30 g	Multi-shot	90	50	0.20 Kg
AR0006700	NFAI-40T SINGLE-SHOT (222 AT)	40 g	Single-shot	120	50	0.23 Kg
AR0006701	NFAI-60T MULTI-SHOT (222 T/N)	60 g	Multi-shot	170	50	0.33 Kg
AR0006702	NFAI-60T SINGLE -SHOT (222 T/P)	60 g	Single-shot	170	50	0.33 Kg
AR0006703	NFAI-100T MULTI-SHOT (203 T/N)	100 g	Multi-shot	300	25	0.41 Kg
AR0006704	NFAI-100T SINGLE-SHOT (203 T/P)	100 g	Single-shot	300	25	0.41 Kg



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PACKAGING

Units per carton	Carton Dimensions (cm)	Cartons /Pallet	Parcels /Layer	Number of Layers	Pallet Dimensions (cm)	Pallet Height (cm)
50	37.0 x 19.0 x 15.2	108	12	9	120 x 80	155
25	24.1 x 23.8 x 18.2	105	15	7	120 x 80	145

WARNING

Pressurised container: May burst if heated. 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 release to the environment. Collect spillage. - Protect from sunlight. Do not expose to temperatures exceeding 40 °C/104 °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.

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