

Safety Data Sheet

Aero-Sense Aircraft Insecticide ASD

Aero-Sense[®]

Version: 1

Version date: 12/04/2023

Language: EN

According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2020/878)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier****Trade name/designation** : Aero-Sense Aircraft Insecticide ASD.**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : Aerosol spray for indoor (cockpit, cabin, cargo) aircraft disinsection. Ready-to-use product. For a rapid 'knockdown' effect with eventually killing activity against mosquitoes. No residual efficacy has been demonstrated. Treatment should be repeated on each flight for which a disinsection treatment is required. One application per flight only. Recommended application rate: 35g/100m³ (i.e. 0,7g a.i./100m³). For professional users only. Prevent use by unauthorised personnel. A member of the cabin crew shall perform no more than one application per day.

Uses advised against : No data available.**1.3. Details of the supplier of the safety data sheet**

Supplier : **Name:** Aero-Sense NV
Street: Schaapbruggenstraat 50
Postal code/City: 8800 Roeselare
Country: Belgium
Telephone: 0032 51 26 80 00
Telefax: 0032 51 46 79 23
Website: www.aero-sense.com
E-mail: quality@aero-sense.com

1.4. Emergency Telephone Number**United Kingdom:**

In England and Wales: dial 111 (NHS 111), In Scotland: dial 111 (NHS 24), In Northern Ireland: Contact your local GP or pharmacist during normal hours. During GP Out-of-Hours (www.gpoutofhours.hscni.net/): Belfast HSC Trust, (North & West) 028 9074 4447, (South & East) 028 9079 6220 South Eastern HSC Trust, (North Down & Ards) 028 9182 2344, (Lisburn & Downpatrick) 028 9260 2204, Dalriada Urgent Care (Northern Trust area) 028 2566 3500, Southern HSC Trust 028 3839 9201, Western Urgent Care 028 7186 5195.

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Hazards identification:

H229	Aerosol 3	Pressurised container: May burst if heated.
H400	Aquatic Acute 1	Very toxic to aquatic life.
H410	Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Labelling**Hazard pictograms****Signal word**

Warning

Hazard Statements

H229	Pressurised container: May burst if heated.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements - Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P273	Avoid release to the environment.

Precautionary Statements - Response

P391 Collect spillage.

Precautionary Statements - Storage

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary Statements - Disposal

P501 Dispose of container to hazardous or special waste collection point.

2.3. Other hazards

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties. Do not use/apply the product directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food and drinks.

Contains 1R-trans phenothrin (pyrethroids), may be dangerous to cats. Care must be taken in using the product when cats are present in the aircraft. Cats must be kept away during treatment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

In accordance with the product knowledge, no nanomaterials have been identified.

The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

Substance	Concentration (%)	Specific concentration limits	Classification
m-phenoxybenzyl (1R-trans)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate			
CAS N° 26046-85-5	1.5% ≤ C ≤ 2.5%	M(Chronic)=10 M=100	H400 Aquatic Acute 1
EC N° 247-431-2			H410 Aquatic Chronic 1
IDX N°			

Remark

Text phrases and H- EUH-: see section 16.

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures****General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Do not leave affected person unattended.

Remove victim out of the danger area.

Following inhalation:

Remove person to fresh air and keep comfortable for breathing.

IF INHALED: If symptoms occur call a POISON CENTRE or a doctor.

Following skin contact:

IF ON SKIN: Wash with soap and water. If symptoms occur call a POISON CENTRE or a doctor.

Pyrethroids may cause paresthesia (burning and prickling of the skin without irritation). If symptoms persist: seek medical advice.

Rapid evaporation of the liquid may cause frostbite. If there is evidence of frostbite, take a bath (do not rub) with lukewarm (not hot) water. If water is not available, cover with a clean, soft cloth or similar covering. Get medical attention if irritation develops or persists.

Following eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms occur, call a POISON CENTRE or a doctor.

Following ingestion:

IF SWALLOWED: If symptoms occur call a POISON CENTRE or a doctor.

As this product is a gas, refer to the inhalation section.

Self-protection of the first aider:

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed**Notes for the doctor:**

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

If the aerosols are exposed to a fire : keep containers cool by spraying with water from a protected position.

Suitable extinguishing media:

Sprayed water or water mist.

Foam.

Extinguishing powder.

Carbon dioxide (CO₂).

Sand.

Unsuitable extinguishing media:

Strong water jet.

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

If possible, stop the product stream. Spray from a protected position till the containers are cool. If possible, take the aerosols outside. Keep public at a distance.

Additional information

Do not inhale vapors and fumes.

Co-ordinate fire-fighting measures to the fire surroundings.

Move undamaged containers from immediate hazard area if it can be done safely.

Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.

Remove persons to safety.

Provide adequate ventilation.

6.2. Environmental precautions

Contain and control any leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite or diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Ensure all waste water is collected and treated via a waste water treatment plant.

Do not allow to enter into soil/subsoil.

Retain contaminated washing water and dispose it.

Ensure that waste management is carried out without endangering human health, without harming the environment and, in particular, without risk to water, air, soil, plants or animals.

6.3. Methods and material for containment and cleaning up

Do not direct water spray at the point of leakage or of spillage.

Allow any product remaining as a result of the leak or spill to evaporate.

Ventilate affected area.

Treat the recovered material as prescribed in the section on waste disposal.

Collect in closed and suitable containers for disposal.

Cleaning of treated aircraft must only be undertaken with specialised products that do not require discharge of liquid waste to drains and local sewage treatment plants.

Cleaning equipment (brushes, cloths, etc) used on an aircraft after application of the product must be disposed of as solid waste and must not be re-used.

Recycle or dispose of waste product in compliance with applicable legislation, preferably via a certified collector or company.

6.4. Reference to other sections

Safe handling: see section 7.

Disposal: see section 13.

Personal protection equipment: see section 8.

Additional information

An appropriate entry should be made in the Aircraft General Declaration, giving details of the disinsection procedure together with the serial numbers of the spray cans used.

The empty spray cans are to be retained for inspection by the Port Health Authority.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not pierce or burn, even after use.

PROTECTIVE MEASURES:

Avoid contact with skin, eyes and clothes.

Remove fume condensates periodically from extraction hoods, leads and other surfaces (wear personal protective clothing!) as there is a risk of catching fire.

Use only in well-ventilated areas.

If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.

Do not spray on naked flames or any incandescent materials.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Provide earthing of containers, equipment, pumps and ventilation facilities.

Sewers and ducts must be protected against the entry of the product.

Provide for retaining containers, eg. floor pan without outflow.

Advices on general occupational hygiene:

Wash hands before breaks and after work.

Remove contaminated, saturated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool, and well-ventilated place.

Keep container in upright position in order to prevent leakage.

Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not expose to temperatures exceeding 50°C/122°F.

Use isolated drainage to prevent discharge to soil.

Advice on joint storage:

Keep away from food, drink and animal feedingstuffs.

Keep away from clothing and other combustible materials.

Keep only in the original container in a cool, well-ventilated place, away from highly flammable substances.

7.3. Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

Does not contain substances above concentration limits fixing an occupational exposure limit.

Biological limit values:

Not available

Exposure limits at intended use:

Not available

Remark:

Not available

8.2. Exposure controls

Appropriate engineering controls:

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment:



Eye/face protection

: Suitable eye protection:

No data available.

Skin protection

: Hand protection:

Suitable gloves type:

No data available.

Body protection:

Suitable protective clothing:

Lab coat.

Respiratory protection

: Suitable respiratory protection apparatus:

No data available.

Environmental exposure controls:

Not available

Consumer exposure controls:

Not available

Additional information

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	:	Aerosol
Colour	:	Clear, Light Yellow
Odour	:	Neutral
pH	:	N.a.
Melting point/freezing point	:	Not available
Initial boiling point and boiling range	:	350°C
Flash point	:	> 105°C
Flammability	:	Not available
Upper/lower flammability or explosive limits	:	Not available
Vapour pressure	:	Not available
Vapour density	:	Not available
Relative density	:	1.16
Solubility(ies)	:	Not available
Partition coefficient n-octanol/water (log value)	:	Not available
Auto-ignition temperature	:	> 300°C
Decomposition temperature	:	Not available
Kinematic viscosity	:	Not available
Solubility in other Solvents	:	Not available
Particle characteristics	:	Not available

9.2. Other safety information

Information concerning to the classes of physical hazards

Not available

Other security characteristics

Not available

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No data available.

10.2. Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

Additional information

Not available

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity:**

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Acute dermal toxicity:

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Acute inhalation toxicity:

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Skin corrosion/irritation:

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Serious eye damage/irritation:

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Skin sensitisation:

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Specific target organ toxicity (repeated exposure):

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Specific target organ toxicity (single exposure):

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Carcinogenicity:

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Reproductive toxicity:

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Germ cell mutagenicity:

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Sensitisation to the respiratory tract:

The product is not classified.

Data for mixture:

Not available

Substances:

Not available

Additional information:

Not available

11.2. Information on other hazards

Endocrine disrupting properties:

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Data for mixture:

Not available

Substances:

Not available

12.2. Persistence and degradability

The product has not been tested.

Data for mixture:

Not available

Substances:

Not available

12.3. Bioaccumulative potential

The product has not been tested.

Data for mixture:

Not available

Substances:

Not available

12.4. Mobility in soil

The product has not been tested.

Data for mixture:

Not available

Substances:

Not available

12.5. Results of PBT and vPvB assessment

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

12.6. Endocrine disrupting properties

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

12.7. Other adverse effects

Not available

Additional ecotoxicological information

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product/Packaging disposal:

Waste codes/waste designations according to EWC/AVV:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options:

Appropriate disposal/Product:

Waste requiring special supervision.

Dispose of waste according to applicable legislation.

Delivery to an approved waste disposal company.

Appropriate disposal/Package:

Non-contaminated packages must be recycled or disposed of.

Contaminated packing must be completely emptied and can be reused after proper cleaning.

Packing which cannot be properly cleaned must be disposed of.

Handle contaminated packages in the same way as the substance itself.

Dispose of waste according to applicable legislation.

Do not pierce or burn, even after use.

Remark:

For recycling, contact manufacturer.

Collect the waste separately.

Consult the appropriate authorities about waste disposal.

Do not mix with other wastes.

The waste is to be kept separate from other types of waste until its disposal.

Concerning the waste it has to be checked, whether a transport authorisation is required.

Additional information

Not available

SECTION 14: TRANSPORT INFORMATION

		Land transport (ADR/RID):	Inland waterway transport (ADN):	Sea transport (IMDG):	Air transport (ICAO- TI/IATA-DGR):
14.1	UN number:	1950	1950	1950	1950
14.2	UN proper shipping name:	AÉROSOLS asphyxiants	AÉROSOLS asphyxiants	AÉROSOLS asphyxiants	AÉROSOLS asphyxiants
14.3	Transport hazard class(es):				
	Class or Division:	2	2	2	2
	Hazard label(s):				
14.4	Packing group:	-	-	-	-

14.5. Environmental hazards

Not available

14.6. Special precautions for user

Not available

14.7. Bulk shipping according to IMO instruments

Not available

Additional information

Not available

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.

This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

EU legislation:

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products. EU BPR Union Authorisation number EU-0024297-0000.

Regulation (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014 on fluorinated greenhouse gases.

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Additional information

Not available

SECTION 16: OTHER INFORMATION**Indication of changes**

Not applicable (first edition of the MSDS).

Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.

CLP: Classification, labeling and packaging.

VPvB: very persistent and very bioaccumulative substances.

Key literature references and sources for data

No data available.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

Complies with ATP 18, Regulation (EU) n°2022/692.

Relevant R-, H- and EUH-phrases (Number and full text)

H229

Aerosol 3

Pressurised container: May burst if heated.

H400	Aquatic Acute 1	Very toxic to aquatic life.
H410	Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects.

Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

Additional information

Creation date: 16/03/2023

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The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.