



## Aircraft insecticide ASD

### SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

#### SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifier

Product name : Aircraft insecticide ASD

Product code : 092595.

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Direct and long-working efficiency against all the crawling and flying insects. Only use the product as directed on the aerosol.

For professional users only.

##### 1.3. Details of the supplier of the safety data sheet

Aero-Sense NV

Delaerestraat 41

8800 Roeselare - BELGIUM

Tel. +32 51 26 80 00 - Fax: +32 51 46 79 23

dieter.vervaecke@aero-sense.com - www.aero-sense.com

##### 1.4. Emergency telephone number : +32 70 245 245.

Association/Organisation : Anti-poison Center Belgium.

#### SECTION 2 : HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 3 (Aerosol 3, H229).

Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).

Hazardous to the aquatic environment - Chronic hazard, Category 1 (Aquatic Chronic 1, H410).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

##### 2.2. Label elements

Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS09

Signal Word :

WARNING

Hazard statements :

H229 Pressurised container: May burst if heated.

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.

Precautionary statements - Storage :

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

##### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq$  0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

Rapid evaporation of the liquid may cause frostbite.

Inhalation may cause central nervous system effects.

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### SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

##### Composition :

| Identification  | (EC) 1272/2008   | Note | %              |
|---|--|------|----------------|
| CAS: 26046-85-5<br>EC: 247-431-2<br><br>1R-TRANS PHENOTHRIN | GHS09<br>Wng<br>Aquatic Acute 1, H400<br>M Acute = 100<br>Aquatic Chronic 1, H410<br>M Chronic = 100 |      | 1 <= x % < 2.5 |

### SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

#### 4.1. Description of first aid measures

##### In the event of exposure by inhalation :

If inhaled, remove to fresh air. Get medical attention if irritation develops and persists.

##### In the event of splashes or contact with eyes :

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists :  
Get medical advice/attention.

##### In the event of splashes or contact with skin :

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.

##### In the event of swallowing :

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

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

See section 11.

#### 4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice (show the label if possible). If symptoms persist, always call a doctor.

### 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 methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- foam
- powder
- carbon dioxide (CO2)

#### 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- Hydrogen fluoride

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

In the event of fire, wear self-contained breathing apparatus.

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.

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### SECTION 6 : ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

#### 6.2. Environmental precautions

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

Prevent any material from entering drains or waterways.

#### 6.3. Methods and material for containment and cleaning up

Do not direct water spray at the point of leakage. Allow to evaporate.

#### 6.4. Reference to other sections

No data available.

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### SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

#### 7.1. Precautions for safe handling

Always wash hands after handling.

#### Fire prevention :

Do not pierce or burn, even after use.

Prevent access by unauthorised personnel.

#### Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in aerosols.

#### Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

#### 7.2. Conditions for safe storage, including any incompatibilities

No data available.

#### Storage

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Keep away from heat and sources of ignition. Storage in a dry, frost-free and well ventilated place.

#### Packaging

Always keep in packaging made of an identical material to the original.

#### 7.3. Specific end use(s)

No data available.

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### SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

No data available.

#### 8.2. Exposure controls

##### Personal protection measures, such as personal protective equipment

Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

##### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

Do not spray in the direction of the eyes.

##### - Hand protection

Not necessary at efficient use. Wash your hands after contact with skin.

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### - Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Not necessary at efficient use. Product in contact with skin may cause frostbite. Wash skin that has been in contact with the product, with water and soap.

### - Respiratory protection

Do not breathe spray. Use only in well-ventilated areas.

### Exposure controls linked to environmental protection

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### General information :

|                  |                         |
|------------------|-------------------------|
| Physical state : | Fluid liquid.<br>Spray. |
| Color :          | Light yellow, clear     |
| Odour :          | Specific                |

#### Important health, safety and environmental information

|                            |                |
|----------------------------|----------------|
| pH :                       | Not relevant.  |
| Flash point interval :     | Not relevant.  |
| Vapour pressure (50°C) :   | Not relevant.  |
| Density :                  | 1.167          |
| Water solubility :         | Insoluble.     |
| Chemical combustion heat : | < 20 kJ/g.     |
| Flash point :              | Not applicable |
| Flammability :             | Not applicable |

### 9.2. Other information

|                    |             |
|--------------------|-------------|
| VOC (g/l) :        | 0.00        |
| Pressure at 20°C : | ± 5.0 bar   |
| Pressure at 50°C : | < 10 bar    |
| Water content :    | < 0.3 % w/w |

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

### 10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4. Conditions to avoid

Avoid :

- heat
- flames and hot surfaces
- frost

Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat and sources of ignition. Storage in a dry, frost-free and well ventilated place.

### 10.5. Incompatible materials

Keep away from :

- alkali metals

### 10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

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- Pyrolysis products containing fluoride
- Fluorocarbons
- Hydrogen fluoride

The product is stable. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### SECTION 11 : TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

##### 11.1.1. Substances

###### Acute toxicity :

|                                       |                                    |
|---------------------------------------|------------------------------------|
| 1R-TRANS PHENOTHRIN (CAS: 26046-85-5) |                                    |
| Oral route :                          | LD50 > 5000 mg/kg<br>Species : Rat |
| Dermal route :                        | LD50 > 5000 mg/kg<br>Species : Rat |
| Inhalation route (Dusts/mist) :       | LC50 > 2.1 mg/l<br>Species : Rat   |

###### Skin corrosion/skin irritation :

1R-trans Phenothrin : Not irritating.

###### Serious damage to eyes/eye irritation :

1R-trans Phenothrin : Not irritating.

###### Respiratory or skin sensitisation :

1R-trans Phenothrin : Not sensitizing.

###### Germ cell mutagenicity :

|                                       |                      |
|---------------------------------------|----------------------|
| 1R-TRANS PHENOTHRIN (CAS: 26046-85-5) | No mutagenic effect. |
|---------------------------------------|----------------------|

###### Carcinogenicity :

|                                       |                                      |
|---------------------------------------|--------------------------------------|
| 1R-TRANS PHENOTHRIN (CAS: 26046-85-5) |                                      |
| Carcinogenicity Test :                | Negative.<br>No carcinogenic effect. |

###### Reproductive toxicant :

|                                       |  |
|---------------------------------------|--|
| 1R-TRANS PHENOTHRIN (CAS: 26046-85-5) |  |
| No toxic effect for reproduction      |  |

###### Aspiration hazard :

1R-trans Phenothrin : Based on available data the classification criteria are not met.

##### 11.1.2. Mixture

No toxicological data available for the mixture.

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### SECTION 12 : ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

#### 12.1. Toxicity

##### 12.1.1. Substances

|                                       |   |
|---------------------------------------|---|
| 1R-TRANS PHENOTHRIN (CAS: 26046-85-5) |   |
| Fish toxicity :                       | LC50 = 0.0027 mg/l<br>Factor M = 100<br>Duration of exposure : 96 h |
| Crustacean toxicity :                 | EC50 = 0.0043 mg/l<br>Factor M = 100<br>Species : Daphnia magna     |

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Duration of exposure : 48 h

Algae toxicity :

ECr50 = 0.011 mg/l  
Factor M = 10  
Duration of exposure : 72 h

### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

### 12.2. Persistence and degradability

1R-trans Phenothrin : Not readily biodegradable. Photodegradable.

#### 12.2.1. Substances

1R-TRANS PHENOTHRIN (CAS: 26046-85-5)

Biodegradability : Non-rapidly degradable.

### 12.3. Bioaccumulative potential

1R-trans Phenothrin : No bioaccumulation.

#### 12.3.1. Substances

1R-TRANS PHENOTHRIN (CAS: 26046-85-5)

Octanol/water partition coefficient : log K<sub>ow</sub> = 6.8

### 12.4. Mobility in soil

1R-trans Phenothrin : Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

1R-trans Phenothrin : PBT/vPvB : No.

### 12.6. Other adverse effects

No data available.

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## SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

#### Waste :

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.

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

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

#### Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

#### Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :

15 01 10 \* packaging containing residues of or contaminated by dangerous substances

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## SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

### 14.1. UN number

1950

### 14.2. UN proper shipping name

UN1950=AEROSOLS, asphyxiant

### 14.3. Transport hazard class(es)

- Classification :

2.2

ADR/RID Label : Limited Quantity : 2.2 is not applicable.

### 14.4. Packing group

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### 14.5. Environmental hazards

- Environmentally hazardous material :



The symbol above is not applicable for "Limited Quantity".

### 14.6. Special precautions for user

| 10. Special precautions for use |       |          |          |           |          |                        |                 |                             |      |        |
|---------------------------------|-------|----------|----------|-----------|----------|------------------------|-----------------|-----------------------------|------|--------|
| ADR/RID                         | Class | Code     | Pack gr. | Label     | Ident.   | LQ                     | Provis.         | EQ                          | Cat. | Tunnel |
|                                 | 2     | 5A       | -        | 2.2       | -        | 1 L                    | 190 327 344 625 | E0                          | 3    | E      |
| IMDG                            | Class | 2°Label  | Pack gr. | LQ        | EMS      | Provis.                | EQ              |                             |      |        |
|                                 | 2.2   | See SP63 | -        | See SP277 | F-D,S-U  | 63 190 277 327 344 959 | E0              |                             |      |        |
| IATA                            | Class | 2°Label  | Pack gr. | Passager  | Passager | Cargo                  | Cargo           | note                        | EQ   |        |
|                                 | 2.2   | -        | -        | 203       | 75 kg    | 203                    | 150 kg          | A98<br>A145<br>A167<br>A802 | E0   |        |
|                                 | 2.2   | -        | -        | Y203      | 30 kg G  | -                      | -               | A98<br>A145<br>A167<br>A802 | E0   |        |

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15 : REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling :

2.0 % 1R-trans Phenothrin

#### - Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 75/734/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014.

#### - Container information:

The mixture is contained in packaging that does not exceed 125 ml.

#### - Particular provisions :

No data available.

### 15.2. Chemical safety assessment

The product contains substances for which a chemical safety assessment has been performed.

## SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

### Wording of the phrases mentioned in section 3 :

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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### Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.  
IMDG : International Maritime Dangerous Goods.  
IATA : International Air Transport Association.  
ICAO : International Civil Aviation Organisation  
RID : Regulations concerning the International carriage of Dangerous goods by rail.  
WGK : Wassergefährdungsklasse (Water Hazard Class).  
GHS09 : Environment  
PBT: Persistent, bioaccumulable and toxic.  
vPvB : Very persistent, very bioaccumulable.  
SVHC : Substances of very high concern.

### Difference Report

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### SECTION 13 : DISPOSAL CONSIDERATIONS

**Codes of wastes (Decision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste) :**

15 01 10 \* packaging containing residues of or contaminated by dangerous substances