

# SAFETY DATA SHEET

## Air Duster

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product name** Air Duster

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

**Identified uses** Duster Spray

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

**Supplier** Aerosol Solutions Ltd  
 Unit C2 Bridgefield Ind Est  
 Draycott Road  
 Breaston  
 Derby  
 DE72 3DS  
 T 01332 870030  
 F 01332 870033  
 sales@aerosolsolutions.co.uk

#### 1.4. Emergency telephone number

**Emergency telephone** 01332 870 030

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

**Physical hazards** Aerosol 3 - H229

**Health hazards** Not Classified

**Environmental hazards** Not Classified

**Physicochemical** Not considered to be a significant hazard due to the small quantities used. Aerosol containers can explode when heated, due to excessive pressure build-up.

#### 2.2. Label elements

**Signal word** Warning

**Hazard statements** H229 Pressurised container: may burst if heated.

**Precautionary statements** P251 Do not pierce or burn, even after use.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P260 Do not breathe vapour/ spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P501 Dispose of contents/ container in accordance with local regulations.

**Supplemental label information** Contains HFO-1234ze (CAS number: 29118-24-9).

**Detergent labelling** ≥ 30% halogenated hydrocarbons

#### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## Air Duster

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>HFO-1234ze</b>		<b>60-100%</b>
CAS number: 29118-24-9	EC number: 471-480-0	REACH registration number: 01-0000019758-54-XXXX
<b>Classification</b>		
Press. Gas (Liq.) - H280		

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Move affected person to fresh air at once.
<b>Inhalation</b>	Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth thoroughly with water.
<b>Skin contact</b>	Rinse with water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse with water. Get medical attention if any discomfort continues.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved.
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#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up. Decomposes on contact with flames and hot surfaces to produce hydrofluoric acid and fluorophosgene. Containers can burst violently or explode when heated, due to excessive pressure build-up.
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#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Warn firefighters that aerosols are involved. Containers close to fire should be removed or cooled with water.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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#### 6.2. Environmental precautions

## Air Duster

**Environmental precautions** Not considered to be a significant hazard due to the small quantities used.

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

**Methods for cleaning up** VENTILATE/EVAPORATE.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations.

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

**Storage precautions** Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 degrees Centigrade. Do not pierce or burn, even after use.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **HFO-1234ze**

Long-term exposure limit (8-hour TWA): SUP 800 ppm

**Ingredient comments** WEL = Workplace Exposure Limits

#### HFO-1234ze (CAS: 29118-24-9)

<b>Ingredient comments</b>	SUP = Supplier's recommendation.
<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 3902 mg/m <sup>3</sup> Consumer - Inhalation; Long term systemic effects: 830 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 0.1 mg/l

### 8.2. Exposure controls

**Appropriate engineering controls** This product must not be handled in a confined space without adequate ventilation.

**Personal protection** When using the aerosol do not smoke.

**Eye/face protection** Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

**Hand protection** Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

**Other skin and body protection** Not relevant

**Hygiene measures** The product itself does not pose any hygiene risks. However normal hygiene standards appropriate to the work place should be maintained.

**Respiratory protection** If ventilation is inadequate, suitable respiratory protection must be worn.

## Air Duster

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Aerosol.
<b>Colour</b>	Colourless.
<b>Odour</b>	No characteristic odour.
<b>pH</b>	Neutral.
<b>Melting point</b>	-108°C
<b>Initial boiling point and range</b>	-19°C @
<b>Flash point</b>	Boils without flashing.
<b>Vapour pressure</b>	4.192 hPa @ 20°C 10.998 hPa @ 54.4°C
<b>Vapour density</b>	4
<b>Relative density</b>	1.206
<b>Solubility(ies)</b>	0.373 g/l @ °C
<b>Partition coefficient</b>	log Pow: 1.6
<b>Auto-ignition temperature</b>	368°C
<b>Comments</b>	Information given is applicable to the major ingredient.

#### 9.2. Other information

<b>Other information</b>	Not available.
<b>Molecular weight</b>	102.4 g/mol
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 0 g/l.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	Stable at normal ambient temperatures and when used as recommended.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Does not decompose when used and stored as recommended.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Keep away from oxidising materials, heat and flames.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.
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### SECTION 11: Toxicological information

## Air Duster

### 11.1. Information on toxicological effects

<b>General information</b>	This product has low toxicity. Only large quantities are likely to have adverse effects on human health.
<b>Inhalation</b>	May cause respiratory system irritation.
<b>Ingestion</b>	No specific health hazards known.
<b>Skin contact</b>	Skin irritation should not occur when used as recommended.
<b>Eye contact</b>	Irritating to eyes.
<b>Acute and chronic health hazards</b>	This product has low toxicity. Only large quantities are likely to have adverse effects on human health.
<b>Route of exposure</b>	Inhalation
<b>Target organs</b>	Respiratory system, lungs
<b>Medical symptoms</b>	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

### Toxicological information on ingredients.

#### HFO-1234ze

##### Germ cell mutagenicity

<b>Genotoxicity - in vitro</b>	Chromosome aberration, Human lymphocytes.: Negative. Ames test: Negative.
<b>Genotoxicity - in vivo</b>	Gene mutation, (Mammalian bone-marrow cytogenetic test, chromosomal analysis), Mouse, Micronucleus., Inhalation: Negative.

##### Reproductive toxicity

<b>Reproductive toxicity - fertility</b>	Two-generation study - NOAEL >20000 ppm, Inhalation, Rat F1, P
<b>Reproductive toxicity - development</b>	Maternal toxicity:, NOEC, Developmental toxicity:, NOAEC - : 15000 ppm, Inhalation, Rat

### **SECTION 12: Ecological Information**

<b>Ecotoxicity</b>	No data on possible environmental effects have been found.
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#### 12.1. Toxicity

<b>Toxicity</b>	Not available.
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### Ecological information on ingredients.

#### HFO-1234ze

##### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: >117 mg/l, Cyprinus carpio (Common carp)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: >160 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	NOEC, Biomass ., Growth rate, 72 hours: >170 mg/l, Algae
<b>Acute toxicity - terrestrial</b>	LC <sub>50</sub> , 4 hours: >207000 ppm, Rat NOEC, Repeated Dose Toxicity, 90 days: 5000 ppm, Rat

## Air Duster

### 12.2. Persistence and degradability

**Persistence and degradability** Not available.

### Ecological information on ingredients.

#### HFO-1234ze

**Persistence and degradability** Aerobic Not readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not available.

**Partition coefficient** log Pow: 1.6

### Ecological information on ingredients.

#### HFO-1234ze

**Partition coefficient** log Pow: 1.6

### 12.4. Mobility in soil

**Mobility** Not known.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** Not available.

### 12.6. Other adverse effects

**Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Do not puncture or incinerate, even when empty.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

### 14.1. UN number

**UN No. (ADR/RID)** 1950

**UN No. (IMDG)** 1950

**UN No. (ICAO)** 1950

**UN No. (ADN)** 1950

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** AEROSOLS

## Air Duster

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.2
ADR/RID classification code	5A,5O
ADR/RID label	2.2
IMDG class	2.2
ICAO class/division	2.2
ADN class	2.2

### Transport labels



### 14.4. Packing group

ADR/RID packing group	None
IMDG packing group	None
ADN packing group	None
ICAO packing group	None

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	3
Tunnel restriction code	(E)

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

Transport in bulk according to  
Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: Regulatory information

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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
EU legislation	Commission Regulation (EU) No 453/2010 of 20 May 2010.
Guidance	Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131.

### 15.2. Chemical safety assessment

## Air Duster

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>Revision comments</b>	Revised formulation. Supplemental information added.
<b>Revision date</b>	06/11/2017
<b>Revision</b>	3
<b>SDS number</b>	12529
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H229 Pressurised container: may burst if heated. H280 Contains gas under pressure; may explode if heated.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.