

# SAFETY DATA SHEET

## Air Duster (Flammable)

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

#### 1.1. Product identifier

Product name Air Duster (Flammable)

#### 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 Aztec Aerosols  
Gateway  
Crewe  
Cheshire  
CW1 6FA  
T+44 (0) 1270 656380  
F+44 (0) 1270 656381  
info@aztecaerosols.com

#### 1.4. Emergency telephone number

Emergency telephone +44 (0)1270 656380 (Monday to Friday, 9am to 5pm)

### SECTION 2: Hazards identification

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

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

Physical hazards Aerosol 1 - H222, H229

Health hazards Not Classified

Environmental hazards Not Classified

**Human health** Gas or vapour is harmful on prolonged exposure or in high concentrations. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

**Environmental** This product does not contain substances which are harmful to aquatic organisms or which may cause long term effects to the aquatic environment

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

#### 2.2. Label elements

##### Pictogram



Signal word Danger

Hazard statements  
H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated.

## Air Duster (Flammable)

<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.</p> <p>P102 Keep out of reach of children.</p> <p>P501 Dispose of contents/ container in accordance with local regulations.</p> <p>P260 Do not breathe vapour/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p>
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**Detergent labelling** ≥ 30% aliphatic hydrocarbons, ≥ 30% halogenated hydrocarbons

### 2.3. Other hazards

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

## 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

#### Classification

Press. Gas (Liq.) - H280

### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

**30-60%**

CAS number: 68476-85-7

EC number: 270-704-2

#### Classification

Flam. Gas 1 - H220

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>	Not relevant.
<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

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

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

**Notes for the doctor** Treat symptomatically.

## SECTION 5: Firefighting measures

## Air Duster (Flammable)

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with foam, carbon dioxide, dry powder or water fog.

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

**Specific hazards** Containers can burst violently or explode when heated, due to excessive pressure build-up.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours. Warn firefighters that aerosols are involved.

## SECTION 6: Accidental release measures

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

**Personal precautions** Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Avoid inhalation of vapours.

### 6.2. Environmental precautions

**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.

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

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb spillage with non-combustible, absorbent material.

### 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. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not spray on a naked flame or any incandescent material.

### 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

##### **PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

## Air Duster (Flammable)

**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

<b>Appropriate engineering controls</b>	Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.
<b>Personal protection</b>	When using the aerosol do not smoke.
<b>Eye/face protection</b>	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.
<b>Hand protection</b>	Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.
<b>Hygiene measures</b>	Wash hands after handling. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn.

## 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>Initial boiling point and range</b>	-19°C @
<b>Flash point</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Other flammability</b>	Not available.
<b>Vapour pressure</b>	4.192 hPa @ 20°C 10.998 hPa @ 54.4°C
<b>Vapour density</b>	4
<b>Relative density</b>	1.17 @ 21.1°C
<b>Solubility(ies)</b>	0.373 g/l water @ °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.

## Air Duster (Flammable)

### 9.2. Other information

<b>Other information</b>	Not available.
<b>Molecular weight</b>	46.07 g/mol
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 260 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. Hydrogen fluoride (HF). Fluorocarbons. Pyrolysis products containing fluoride.
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### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

<b>General information</b>	Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.
<b>Inhalation</b>	In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.
<b>Ingestion</b>	No specific health hazards known.
<b>Skin contact</b>	Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	Vapour or spray in the eyes may cause irritation and smarting.
<b>Acute and chronic health hazards</b>	Arrhythmia (deviation from normal heart beat). In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
<b>Route of exposure</b>	Inhalation
<b>Target organs</b>	Central nervous system Respiratory system, lungs
<b>Medical symptoms</b>	Arrhythmia (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

#### Toxicological information on ingredients.

**HFO-1234ze**

## Air Duster (Flammable)

### Germ cell mutagenicity

**Genotoxicity - in vitro** Chromosome aberration, Human lymphocytes.: Negative. Ames test: Negative.

**Genotoxicity - in vivo** Gene mutation, (Mammalian bone-marrow cytogenetic test, chromosomal analysis), Mouse, Micronucleus., Inhalation: Negative.

### Reproductive toxicity

**Reproductive toxicity - fertility** Two-generation study - NOAEL >20000 ppm, Inhalation, Rat F1, P

**Reproductive toxicity - development** Maternal toxicity:, NOEC, Developmental toxicity:, NOAEC - : 15000 ppm, Inhalation, Rat

## SECTION 12: Ecological information

**Ecotoxicity** No negative effects on the aquatic environment are known. The product is not expected to be toxic to aquatic organisms.

### 12.1. Toxicity

**Toxicity** Not available.

### Ecological information on ingredients.

#### HFO-1234ze

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >117 mg/l, Cyprinus carpio (Common carp)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >160 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** NOEC, Biomass  
., Growth rate, 72 hours: >170 mg/l, Algae

**Acute toxicity - terrestrial** LC<sub>50</sub>, 4 hours: >207000 ppm, Rat  
NOEC, Repeated Dose Toxicity, 90 days: 5000 ppm, Rat

### 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.

## Air Duster (Flammable)

### 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

**Proper shipping name (IMDG)**      AEROSOLS

**Proper shipping name (ICAO)**      AEROSOLS

**Proper shipping name (ADN)**      AEROSOLS

### 14.3. Transport hazard class(es)

**ADR/RID class**      2.1

**ADR/RID classification code**      5F

**ADR/RID label**      2.1

**IMDG class**      2.1

**ICAO class/division**      2.1

**ADN class**      2.1

### Transport labels



### 14.4. Packing group

## Air Duster (Flammable)

ADR/RID packing group	None
IMDG packing group	None
ICAO packing group	None
ADN 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	2
Tunnel restriction code	(D)

### 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 Not applicable.

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

<b>National regulations</b>	The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). EH40/2005 Workplace exposure limits. The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
<b>EU legislation</b>	Commission Regulation (EU) No 453/2010 of 20 May 2010.
<b>Guidance</b>	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Revision comments	This is the first issue.
Revision date	21/02/2018
Revision	1
SDS number	21390
SDS status	Approved.
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H280 Contains gas under pressure; may explode if heated.

## **Air Duster (Flammable)**

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.