

SAFETY DATA SHEET Spray Duster

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

1.1. Product identifier

Product name Spray Duster
Product number ZE29 - ZE294

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 Arctic Hayes

Unit 11 Glover Way
Parkside Industrial Estate

Beeston Leeds LS11 5JP

(T) +44 (0)113 271 5245

1.4. Emergency telephone number

Emergency telephone +44 (0)113 271 5245

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.

Spray Duster

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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HFO-1234ze 60-100%

CAS number: 29118-24-9 EC number: 471-480-0 REACH registration number: 01-

0000019758-54-XXXX

Classification

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

General information Move affected person to fresh air at once.

Inhalation 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.

Ingestion Rinse mouth thoroughly with water.

Skin contact Rinse with water. Get medical attention if any discomfort continues.

Eye contact 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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Cool aerosol containers exposed to heat with water spray and

remove container, if no risk is involved.

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.

Decomposes on contact with flames and hot surfaces to produce hydrofluoric acid and

fluorophosgene.

5.3. Advice for firefighters

Protective actions during

firefighting

Warn firefighters that aerosols are involved. Containers close to fire should be removed or

cooled with water.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

Spray Duster

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

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)

Ingredient comments SUP = Supplier's recommendation.

DNEL Workers - Inhalation; Long term systemic effects: 3902 mg/m³

Consumer - Inhalation; Long term systemic effects: 830 mg/m³

PNEC - Fresh water; 0.1 mg/l

8.2. Exposure controls

Appropriate engineering

This product must not be handled in a confined space without adequate ventilation.

Personal protection

controls

Do not eat, drink or smoke when using this product.

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

Spray Duster

Hygiene measures Clean equipment and the work area every day. Good personal hygiene procedures should be

implemented.

Respiratory protection 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

Appearance Aerosol.

Colourless.

Odour No characteristic odour.

Melting point -108°C

Initial boiling point and range -26°C @

Flash point n/a°C

Vapour pressure 561 kPa @ °C

Vapour density 3.5 (Air = 1)

Relative density 1.206

Partition coefficient Pow: 1.06

Auto-ignition temperature >743°C

Comments Information given is applicable to the major ingredient.

9.2. Other information

Other information Not available.

Molecular weight 102.4 g/mol

Volatile organic compound This product contains a maximum VOC content of 0 g/l.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable at normal ambient temperatures and when used as recommended.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Does not decompose when used and stored as recommended.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Keep away from oxidising materials, heat and flames.

10.6. Hazardous decomposition products

Hazardous decomposition

products

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.

Spray Duster

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General information This product has low toxicity. Only large quantities are likely to have adverse effects on

human health.

Inhalation May cause respiratory system irritation.

Ingestion No specific health hazards known.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact Irritating to eyes.

Acute and chronic health

hazards

This product has low toxicity. Only large quantities are likely to have adverse effects on

human health.

Route of exposure Inhalation

Target organs Respiratory system, lungs

Medical symptoms 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

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

No data on possible environmental effects have been found. **Ecotoxicity**

12.1. Toxicity

Toxicity Not available.

Ecological information on ingredients.

HFO-1234ze

Acute aquatic toxicity

LC₀, 96 hours: >117 mg/l, Cyprinus carpio (Common carp) Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours: >160 mg/l, Daphnia magna

Acute toxicity - aquatic

NOEC, Biomass

., Growth rate, 72 hours: >170 mg/l, Algae plants

Spray Duster

Acute toxicity - terrestrial LC₀, 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 Pow: 1.06

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 methodsDispose 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

Spray Duster

Proper shipping name

AEROSOLS

(ADR/RID)

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

IMDG packing group None

ADN packing group None

ICAO packing group None

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

None

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 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

National regulations Health and Safety at Work etc. Act 1974 (as amended).

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"].

EH40/2005 Workplace exposure limits.

Spray Duster

EU legislation Commission Regulation (EU) No 453/2010 of 20 May 2010.

Guidance Workplace Exposure Limits EH40.

Safety Data Sheets for Substances and Preparations.

Approved Classification and Labelling Guide (Sixth edition) L131. British Aerosol Manufacturers Code of Practice 7th. Edition 1999

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments This is first issue.

Revision date 19/10/2017

Revision 1

SDS number 21339

SDS status Approved.

Hazard statements in full 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.