

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

#### 1.1. Product identifier

|                        |                                       |
|------------------------|---------------------------------------|
| Product form           | : Substance                           |
| Name                   | : Solstice Propellant HFO 1234ze      |
| Chemical name          | : Trans-1,3,3,3-Tetrafluoroprop-1-ene |
| EC-No.                 | : 471-480-0                           |
| CAS-No.                | : 29118-24-9                          |
| REACH registration No. | : 01-0000019758-54                    |
| Product code           | : 100123400                           |

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

##### Relevant identified uses

Use of the substance/mixture : Aerosol jet

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

##### Supplier

Dehon Service SAS  
 26 Avenue du Petit Parc  
 94683 VINCENNES Cedex  
 France  
 T 01 43 98 75 00, F 01 43 98 21 51  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

##### Other

Climalife Kft Budepesta sucursală Bucuresti Romania  
 Bulevardul Hristo Botev, Nr. 28,  
 Biroul NR 4, Modulul I  
 Bucuresti Sectorul 3  
 Romania  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

##### Other

Dehon Kälte-Fachvertriebs GmbH  
 Robert-Bosch-Strasse 14  
 40668 MEERBUSCH  
 Germany  
 T 00 49 2150 7073 0, F 00 49 2150 7073 17  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

##### Other

Dehon Service Belgium s.a/n.v.  
 Avenue Carton de Wiart, 79  
 1090 Bruxelles  
 Belgium  
 T 00 32 2 421 01 70, F 00 32 2 426 96 62  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

##### Other

Friogas sa  
 Poligono Industrial SEPES  
 Parcela 10  
 46500 SAGUNTO (Valencia)  
 Spain  
 T 00 34 9 6 266 36 32, F 00 34 9 6 266 50 25  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

##### Other

Prochimac SA  
 ZI Petits Champs 15  
 CH-1400 Yverdon-les-Bains  
 Switzerland

##### Other

Climalife Hongrie Kft.  
 Villányi út 47  
 1118 Budapest  
 Hungary  
 T (36) 23 431 660  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

##### Other

Climalife Supplied by Inventec Performance Chemicals Italia SRL  
 Via del Lavoro, 10/G  
 20874 Busnago MB  
 Italia  
 T +39 39-5973480, F +39 39-5973490  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

##### Other

Dehon nordic service  
 Östra Hamngatan 50B 3tr  
 41109 GÖTEBORG  
 Sweden  
 T 00 46 735 01 90 50  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

##### Other

Dehon Service Nerderland B.V.  
 Van Konijnenburgweg 84  
 NL-4612 PL Bergen Op Zoom  
 Netherlands  
 T 00 31 164 212 830, F 00 31 164 212 831  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

##### Other

IDS Refrigeration Limited  
 22 Apex Court, Woodlands, Bradley Stoke  
 BS32 4JT Bristol  
 United Kingdom  
 T 00 44 1179 802520, F 00 44 1179 802521  
[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

##### Other

Galco s.a/n.v.  
 Avenue Carton de Wiart, 79  
 1090 BRUSSELS  
 Belgium

# Solstice Propellant HFO 1234ze

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

T 00 41 32 727 36 00, F 00 41 32 727 36 19

[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

### Other

Climalife Asia Corporation  
Room 302-A82, No.3, Building 1509, Xin Zhen Road,  
201101 Shanghai, Minhang District  
China

T +86 21 6442 3972, F +86 21 6442 3952

[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

### Other

Teknalys Middle East FZCO  
B34BS33O203, Jebel Ali Freezone  
Dubai

United Arab Emirates

[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

T 00 32 2 421 01 84, F 00 32 2 421 01 84 / 00 32 2 425 38 12

[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

### Other

Galco Singapore Branch  
135 Cecil Street #10-01  
Singapore

[ContactFDS@climalife.dehon.com](mailto:ContactFDS@climalife.dehon.com)

## 1.4. Emergency telephone number

Emergency number : +33 (0) 1 72 11 00 03

| Country/Area   | Organisation/Company   | Address                                  | Emergency number   | Comment                              |
|----------------|--|--|--|--------------------------------------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital                     | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |                                      |
| United Kingdom | National Poisons Information Service<br>(Birmingham Centre)<br>City Hospital | Dudley Road<br>B18 7QH                   | 0344 892 0111  | Only for healthcare<br>professionals |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Press. Gas (Liq.) H280

Full text of hazard classes, H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Contact with the liquid may cause frostbite and serious damage to eyes. Under certain temperature and pressure conditions may form a flammable mixture in the presence of air.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS04

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H280 - Contains gas under pressure; may explode if heated.

Precautionary statements (CLP)

: P403 - Store in a well-ventilated place.

Extra phrases

: Greenhouse fluorinated gas falling within Kyoto Protocol (GWP = 1,37).

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

# Solstice Propellant HFO 1234ze

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name : Solstice Propellant HFO 1234ze  
CAS-No. : 29118-24-9  
EC-No. : 471-480-0

| Name                                | Product identifier   | %   | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------------------------|--|-----|---|
| Trans-1,3,3,3-Tetrafluoroprop-1-ene | CAS-No.: 29118-24-9<br>EC-No.: 471-480-0<br>REACH-no: 01-0000019758-54 | 100 | Press. Gas (Liq.), H280   |

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Evacuate danger area. Keep warm and in a quiet place. Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Take off immediately all contaminated clothing.

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. If you feel unwell, seek medical advice.

First-aid measures after skin contact : In the event of contact with the liquid: treat resulting frostbite as a burn. Immediately remove contaminated clothing or footwear. Immediately rinse with plenty of water. If skin burns appear, call a doctor immediately.

First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Consult an eye specialist immediately.

First-aid measures after ingestion : Not specifically applicable (gas).

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

Symptoms/effects : CNS depression. Narcosis. Cardiac disorders. Lack of oxygen: risk of death.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Water fog. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Strong water jet.

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

Fire hazard : Difficult to ignite. Heating will cause a rise in pressure with a risk of bursting. Vapours are heavier than air and can cause suffocation by reducing oxygen available for breathing. Vapours may cause fire/explosion if source of ignition is present.

Hazardous decomposition products in case of fire : Toxic and corrosive fumes are released. See Section 10.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.  
Protection during firefighting : Self-contained breathing apparatus. Complete protective clothing.

# Solstice Propellant HFO 1234ze

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 6: Accidental release measures

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

General measures : Avoid contact with skin and eyes. Remove all sources of ignition. Do not smoke. Evacuate the danger area. Do not breathe smoke. Stop the leak. Local evacuation is necessary (for people in close proximity to the spillage area).

No additional information available

#### 6.2. Environmental precautions

Do not allow product to spread into the environment. Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.

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

Methods for cleaning up : NEVER aim a water jet directly at a liquid.  
Other information : Mechanically ventilate the spillage area.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid breathing spray, mist, fume, gas, dust, vapours. Ensure good ventilation of the work station. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Heating will cause a rise in pressure with a risk of bursting. Vapours may form explosive mixture with air. Difficult to ignite.

Hygiene measures : Do not drink, eat or smoke in the workplace.

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

Storage conditions : Store : only in the original container, the container tightly closed, in a cool, well-ventilated area, away from direct sunlight.

Incompatible materials : Oxidizing materials.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### National occupational exposure and biological limit values

##### Solstice Propellant HFO 1234ze (29118-24-9)

##### EU - Indicative Occupational Exposure Limit (IOEL)

|          |                        |
|----------|------------------------|
| IOEL TWA | 4240 mg/m <sup>3</sup> |
|          | 1000 ppm               |

##### Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24-9)

##### EU - Indicative Occupational Exposure Limit (IOEL)

|          |                       |
|----------|-----------------------|
| IOEL TWA | 800 ppm (recommended) |
|----------|-----------------------|

# Solstice Propellant HFO 1234ze

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### DNEL and PNEC

| Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24-9) |                        |
|--|------------------------|
| <b>DNEL/DMEL (Workers)</b>                       |                        |
| Long-term - systemic effects, inhalation         | 3902 mg/m <sup>3</sup> |
| <b>DNEL/DMEL (General population)</b>            |                        |
| Long-term - systemic effects, inhalation         | 830 mg/m <sup>3</sup>  |
| <b>PNEC (Water)</b>                              |                        |
| PNEC aqua (freshwater)                           | 0.117 mg/l             |
| PNEC aqua (intermittent, freshwater)             | 1.17 mg/l              |

### 8.2. Exposure controls

#### Personal protection equipment

##### Eye and face protection

###### Eye protection:

Safety glasses with side shields. ISO 16321-1

##### Skin protection

###### Skin and body protection:

Majority cotton protective clothing

###### Hand protection:

Leather protective gloves. Nitrile-rubber protective gloves. VITON gloves. ISO 374-1

###### Other skin protection

###### Materials for protective clothing:

Standard. EN 340, 463, 468, 943-1, 943-2. safety foot-wear. EN ISO 20345

##### Respiratory protection

###### Respiratory protection:

In the event of insufficient ventilation: Mask with ABEK or AX canister AX. In a confined area : Self-contained breathing apparatus. Regulatory Standard. EN 136. ISO 13688. EN 149

## SECTION 9: Physical and chemical properties

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

|                           |  |
|---------------------------|--|
| Physical state            | : Gas  |
| Colour                    | : Colourless.  |
| Appearance                | : Press. Gas (Liq.).   |
| Molecular mass            | : 114 g/mol  |
| Odour                     | : slightly ethereal.   |
| Odour threshold           | : Not available  |
| Melting point             | : Not applicable   |
| Freezing point            | : Not applicable   |
| Boiling point             | : -19 °C   |
| Flammability              | : Non flammable, Under certain temperature and pressure conditions may form a flammable mixture in the presence of air |
| Explosive properties      | : Not explosive material according to EC criteria.   |
| Oxidising properties      | : Non oxidizing material according to EC criteria.   |
| Lower explosion limit     | : None under normal conditions (20°C)  |
| Upper explosion limit     | : None under normal conditions (20°C)  |
| Flash point               | : None   |
| Auto-ignition temperature | : 368 °C   |
| Decomposition temperature | : Not available  |
| pH                        | : Not applicable   |
| Viscosity, kinematic      | : Not applicable   |

# Solstice Propellant HFO 1234ze

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

|   |                                 |
|---|---------------------------------|
| Solubility                                      | : Water: 0.373 g/l              |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                 |
| Vapour pressure                                 | : 3.2 bar (20°C)                |
| Vapour pressure at 50°C                         | : 8.6 bar (50°C)                |
| Density   | : 1.19 g/cm <sup>3</sup> (20°C) |
| Relative density                                | : Not applicable                |
| Relative vapour density at 20°C                 | : 4                             |
| Particle characteristics                        | : Not applicable                |

### 9.2. Other information

#### Other safety characteristics

VOC content : 100 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

### 10.3. Possibility of hazardous reactions

No dangerous polymerization.

### 10.4. Conditions to avoid

Heat. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C.

### 10.5. Incompatible materials

Strong oxidizing agents. alkali metals.

### 10.6. Hazardous decomposition products

To avoid thermal decomposition, do not overheat. Hazardous decomposition products in case of fire. On thermal decomposition (pyrolysis), releases : Carbon oxides (CO, CO<sub>2</sub>), Fluorinated hydrocarbons, Hydrogen fluoride.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24-9)

|                             |                 |
|-----------------------------|-----------------|
| LC50 Inhalation - Rat [ppm] | > 207000 ppm/4h |
|-----------------------------|-----------------|

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Not irritating to skin<br>pH: Not applicable                   |
| Additional information            | : Contact with the liquid the may cause cold burns/frostbite     |
| Serious eye damage/irritation     | : Not classified<br>pH: Not applicable                           |
| Additional information            | : Contact with the liquefied gas may cause severe ocular lesions |
| Respiratory or skin sensitisation | : Not classified   |
| Germ cell mutagenicity            | : Not classified   |
| Carcinogenicity                   | : Not classified   |
| Reproductive toxicity             | : Not classified   |
| STOT-single exposure              | : Not classified   |
| STOT-repeated exposure            | : Not classified   |

# Solstice Propellant HFO 1234ze

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24-9)

|                                       |                  |
|---------------------------------------|------------------|
| NOAEC (inhalation, rat, gas, 90 days) | 5000 ppmv/6h/day |
|---------------------------------------|------------------|

Aspiration hazard : Not applicable

### 11.2. Information on other hazards

#### Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24-9)

|                 |  |
|-----------------|--|
| LC50 - Fish [1] | > 117 mg/l Test organisms (species): Cyprinus carpio |
|-----------------|--|

|                      |  |
|----------------------|--|
| EC50 - Crustacea [1] | > 160 mg/l Test organisms (species): Daphnia magna |
|----------------------|--|

|                      |  |
|----------------------|--|
| EC50 72h - Algae [1] | > 170 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
|----------------------|--|

|                        |  |
|------------------------|--|
| NOEC chronic crustacea | > 160 mg/l OCDE Ligne directrice 202 (48h) |
|------------------------|--|

|                    |  |
|--------------------|--|
| NOEC chronic algae | > 170 mg/l OCDE Ligne directrice 201 (72h) |
|--------------------|--|

### 12.2. Persistence and degradability

#### Solstice Propellant HFO 1234ze (29118-24-9)

|                               |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
|-------------------------------|----------------------------|

#### Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24-9)

|                               |                            |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
|-------------------------------|----------------------------|

### 12.3. Bioaccumulative potential

#### Trans-1,3,3,3-Tetrafluoroprop-1-ene (29118-24-9)

|   |     |
|---|-----|
| Partition coefficient n-octanol/water (Log Pow) | 1.6 |
|---|-----|

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

# Solstice Propellant HFO 1234ze

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 12.7. Other adverse effects

Other adverse effects : ODP (R-11=1)=0.  
Additional information : GWP (CO2=1/100 years) = 1,37




## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Methods of disposal of packaging. Reuse or recycle following decontamination. Destroy at an authorised site.  
Additional information : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.  
Ecological waste information : Must not be discharged to atmosphere. Refer to manufacturer or supplier for information on recovery or recycling.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

| ADR   | IMDG  | IATA  |
|---|---|---|
| <b>14.1. UN number or ID number</b>   |   |   |
| UN 3163   | UN 3163   | UN 3163   |
| <b>14.2. UN proper shipping name</b>  |   |   |
| LIQUEFIED GAS, N.O.S. (Trans-1,3,3,3-Tetrafluoroprop-1-ene)                         | LIQUEFIED GAS, N.O.S. (Trans-1,3,3,3-Tetrafluoroprop-1-ene)   | Liquefied gas, n.o.s. (Trans-1,3,3,3-Tetrafluoroprop-1-ene)                           |
| <b>Transport document description</b>   |   |   |
| UN 3163 LIQUEFIED GAS, N.O.S. (Trans-1,3,3,3-Tetrafluoroprop-1-ene), 2.2, (C/E)     | UN 3163 LIQUEFIED GAS, N.O.S. (Trans-1,3,3,3-Tetrafluoroprop-1-ene), 2.2                                    | UN 3163 Liquefied gas, n.o.s. (Trans-1,3,3,3-Tetrafluoroprop-1-ene), 2.2              |
| <b>14.3. Transport hazard class(es)</b>   |   |   |
| 2.2   | 2.2   | 2.2   |
|  |                          |  |
| <b>14.4. Packing group</b>  |   |   |
| Not applicable  | Not applicable  | Not applicable  |
| <b>14.5. Environmental hazards</b>  |   |   |
| Dangerous for the environment: No   | Dangerous for the environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-C<br>EmS-No. (Spillage): S-V | Dangerous for the environment: No   |
| No supplementary information available  |   |   |

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : 2A  
Special provisions (ADR) : 274, 662  
Limited quantities (ADR) : 120ml  
Tank code (ADR) : PxBN(M)  
Transport category (ADR) : 3  
Hazard identification number (Kemler No.) : 20



# Solstice Propellant HFO 1234ze

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Orange plates : 

Tunnel restriction code (ADR) : C/E  
EAC code : 2TE

### Transport by sea

Special provisions (IMDG) : 274  
Limited quantities (IMDG) : 120 ml

### Air transport

PCA Limited quantities (IATA) : Forbidden  
PCA limited quantity max net quantity (IATA) : Forbidden  
PCA packing instructions (IATA) : 200  
PCA max net quantity (IATA) : 75kg  
CAO packing instructions (IATA) : 200  
CAO max net quantity (IATA) : 150kg

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### VOC Directive (2004/42)

VOC content : 100 %

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### National regulations

Ensure all national/local regulations are observed.

# Solstice Propellant HFO 1234ze

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

| Indication of changes |  |                 |
|-----------------------|--|-----------------|
| Section               | Changed item   | Comments        |
|                       | Revision date  | <b>Modified</b> |
|                       | Supersedes   | <b>Modified</b> |
|                       | Adverse health effects caused by endocrine disrupting properties             | <b>Added</b>    |
|                       | Indication of changes  | <b>Removed</b>  |
| 2.2                   | Extra phrases  | <b>Added</b>    |
| 2.2                   | Precautionary statements (CLP)   | <b>Modified</b> |
| 3                     | Composition/information on ingredients                                       | <b>Modified</b> |
| 8                     | IOEL TWA   | <b>Added</b>    |
| 8                     | IOEL TWA   | <b>Added</b>    |
| 9                     | Vapour pressure  | <b>Modified</b> |
| 9                     | Vapour pressure at 50°C  | <b>Modified</b> |
| 9                     | VOC content  | <b>Added</b>    |
| 9                     | Partition coefficient n-octanol/water (Log Pow)                              | <b>Removed</b>  |
| 12.3                  | Bioaccumulative potential  | <b>Removed</b>  |
| 12.6                  | Adverse effects on the environment caused by endocrine disrupting properties | <b>Added</b>    |

Other information : For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region.

#### Full text of H- and EUH-statements:

|                   |   |
|-------------------|---|
| H280              | Contains gas under pressure; may explode if heated. |
| Press. Gas (Liq.) | Gases under pressure : Liquefied gas                |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.