

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

1.1 Product identifier

Product name: SwanSlip Aerosol

Other identification:

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

Lubricant aerosol

1.3 Details of the supplier of the safety data sheet

SwanTek

Mintsfeet Road South, Kendal, LA9 6ND, UK

Tel: +44 (0)1539 722247 Email: service@swantek.com Web: www.swantek.com

1.4 Emergency telephone number

As per section 1.3

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Aerosol 3 - H229

The Full Text for all Hazard Statements is Displayed in Section 16.

2.2 Label elements

Hazard pictograms: (none)
(none)
(none)
(none)

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.

Other label elements: Supplemental label information:

Contains 0.44kg of a fluorinated greenhouse gas covered by the Kyoto protocol: HFC-134a (Tetrafluoroethane : EC No. 212-377-0). Global Warming Potential (GWP) in CO2 equivalent: 1301.

2.3 Other hazards

Section 3: Composition / information on ingredients

3.1 Substances

3.2 Mixtures

TETRAFLUOROETHANE 60-100%

CAS number: 811-97-2 EC number: 212-377-0 REACH registration number: 01-2119459374-33-XXXX

Classification: Press. Gas, Compressed - 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: 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: Rinse with water. Get medical attention if any discomfort continues.

Eye: Rinse with water. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

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

Inhalation:

Ingestion:

Skin:

Eye:

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor: Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

The product is not flammable. Cool aerosol containers exposed to heat with water spray and remove containers, if no risk is involved.

5.2 Special hazards arising from the substance or mixture

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

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

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

6.2 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

Ventilate/evaporate.

6.4 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

Read and follow manufacturer's recommendations.

7.2 Conditions for safe storage, including any incompatibilities

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

7.3 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

TETRAFLUOROETHANE

Long-term exposure limit (8-hour TWA): WEL 1000 ppm, 4240 mg/m³

WEL = Workplace Exposure Limit

8.2 Exposure controls

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

Personal protection: 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

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
Colour	Colourless
Odour	No characteristic odour
Melting point	-108°C
Initial boiling point and range	-26°C
Flash point	n/a
Vapour pressure	561 kPa
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

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

Stable at normal ambient temperatures and when used as recommended.

10.2 Chemical stability

Stable at normal ambient temperatures and when used as recommended.

10.3 Possibility of hazardous reactions

Does not decompose when used and stored as recommended.

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5 Incompatible materials

Keep away from oxidising materials, heat and flames.

10.6 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.

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 entry: 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.

Section 12: Ecological information

12.1 Toxicity

Not available. No data on possible environmental effects have been found.

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

Partition coefficient Pow: 1.06

12.4 Mobility in soil

Not known

12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

Not available

Section 13: Disposal considerations

13.1 Waste treatment methods

Do not puncture or incinerate, even when empty. 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/IMDG/ICAO): 1950

14.2 UN proper shipping name

Proper shipping name (ADR/RID/IMDG/ICAO/ADN): AEROSOLS

14.3 Transport hazard class(es)

ADR/RID class: 2.2

ADR/RID label: 2.2

IMDG class: 2.2

ICAO class/division: 2.2

14.4 Packing group

Not applicable

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant: No

14.6 Special precautions for user

EmS: F-D, S-U

Tunnel restriction code: (E)

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable

Section 15: Regulatory information

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

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

Section 16: Other information

Hazard statements in full:

H229 Pressurised container: may burst if heated.

H280 Contains gas under pressure; may explode if heated.

The responsibility to ensure safe working conditions within the workplace remains with the user. The information on this SDS is given as a guide to the precautions required to maintain a safe work environment. This product is for professional use only. Not for sale or resale to the general public. Use in applications other than those described above may give rise to risks not covered by the information on this SDS. The physical and chemical properties on this SDS are typical properties and are not a specification. Please report any errors.