

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

1.1 Product identifier

Product name: SwanFreeze Aerosol

Other identification:

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

Circuit freezer spray

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

No significant hazard

2.2 Label elements

Hazard pictograms: (none)

(none)

(none)

(none)

Signal word: (none)

Hazard statements:

Precautionary statements:

Other label elements:

2.3 Other hazards

Section 3: Composition / information on ingredients

3.1 Substances

Chemical Name: 1,1,1,2 Tetrafluoroethane

CAS No.: 811-97-2

EC No.: 212-377-0

Conc. (%w/w): 90-100%

Classification: F, R11; Xn, R65; Xi, R38; N, R51/53; R67

3.2 Mixtures

Section 4: First aid measures

4.1 Description of first aid measures

General:

Inhalation: In low concentrations, may cause narcotic effects. Symptoms may include dizziness, headache, and loss of co-ordination. In high concentrations, may cause asphyxiation. Symptoms may include loss of mobility/conciousness. Victims may not be aware of asphyxiation. Remove the affected person from the source of contamination immediately. Seek medical attention.

Ingestion: Ingestion is not considered a route of potential exposure.

Skin: In case of frostbite, spray with water for at least 15 minutes. Apply a sterile dressing.

Eye: Immediately flush eyes thoroughly with water for at least 15 minutes. Obtain medical assistance.

4.2 Most important symptoms and effects, both acute and delayed

General:

Inhalation:

Ingestion:

Skin:

Eye:

4.3 Indication of any immediate medical attention and special treatment needed

Section 5: Firefighting measures

5.1 Extinguishing media

All known fire extinguishers may be used.

5.2 Special hazards arising from the substance or mixture

Exposure to fire may cause containers to rupture or explode.

5.3 Advice for firefighters

If involved in a fire, the following toxic and or corrosive fumes may be produced by thermal decomposition: Carbonyl fluoride, Hydrogen fluoride, Carbon monoxide. Wear suitable respiratory equipment when necessary.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area.

6.2 Environmental precautions

No specific clean up requirements.

6.3 Methods and material for containment and cleaning up

Ventilate area.

6.4 Reference to other sections

Section 7: Handling and storage

7.1 Precautions for safe handling

7.2 Conditions for safe storage, including any incompatibilities

Store below 50°C in a well-ventilated area.

7.3 Specific end use(s)

Section 8: Exposure controls / personal protection

8.1 Control parameters

8.2 Exposure controls

Circuit freezer

WEL () Short-term value: - mg/m³, - ppm

Long-term value: 4240 mg/m³, 100 ppm

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Note: This information represents typical data and is not a specification.

Form	Aerosol
Colour	Colourless
Specific gravity	1.22 g/cm ³

9.2 Other information

Section 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

10.6 Hazardous decomposition products

See section 5.

Section 11: Toxicological information

11.1 Information on toxicological effects

No data available.

Section 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

Section 13: Disposal considerations

13.1 Waste treatment methods

Dispose of in compliance with all local and national regulations. Do not puncture container, even when empty.

Section 14: Transport information

General

14.1 UN Number

UN-Number: 1950

14.2 UN proper shipping name

UN proper shipping name: AEROSOLS

14.3 Transport hazard class(es)

ADR/RID: 2

Subsidiary risk: see SP63

IMDG: 2

Subsidiary risk: see SP63

IATA: 2

Subsidiary risk: see SP63

14.4 Packing group

n/a

14.5 Environmental hazards

Environmental hazards: No

Marine pollutant: No

14.6 Special precautions for user

ADR/RID

Hazard ID: -

Tunnel category: (E)

IMDG

EmS code: F-D S-U

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

Section 15: Regulatory information

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

Section 16: Other information

Ensure all national/local regulations are observed.

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.