

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

1.1 Product identifier

Product name: SwanSil 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

Physical hazards: Aerosol 1 - H222, H229

Health hazards: Skin Irrit. 2 - H315

Environmental hazards: Aquatic Chronic 3 - H412.

The full text for all Hazard Statements is displayed in section 16.

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: The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Physicochemical: Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

2.2 Label elements

Hazard pictograms: CLP 02 Flammable
CLP 07 Exclamation
(none)
(none)



Signal word: Danger

Hazard statements: H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
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.
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:

2.3 Other hazards

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

Section 3: Composition / information on ingredients

3.1 Substances

3.2 Mixtures

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS 60-100%

CAS number: 68476-85-7 EC number: 270-704-2

Classification:

Flam. Gas 1 - H220

Press. Gas, Liquefied - H280

HYDROCARBONS, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 10-30%

CAS number: — EC number: 921-024-6 REACH registration number: 01-2119475514-35

Classification:

Flam. Liq. 2 - H225

Skin Irrit. 2 - H315

Asp. Tox. 1 - H304

STOT SE 3 - H336

Aquatic Chronic 2 - H411

HEXANE-norm <1%

CAS number: 110-54-3 EC number: 203-777-6 REACH registration number: 01-2119480412-44

Classification:

Flam. Liq. 2 - H225

STOT RE 2 - H373

Skin Irrit. 2 - H315

Repr. 2 - H361f

STOT SE 3 - H336

Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

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: If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion: Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.

Skin: Remove contaminated clothing immediately and wash skin with soap and water.

Eye: Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2 Special hazards arising from the substance or mixture

Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapours are heavier than air

and may spread near ground and travel a considerable distance to a source of ignition and flash back. Extremely flammable. Forms explosive mixtures with air.

5.3 Advice for firefighters

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

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 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

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

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

7.2 Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store at moderate temperatures in dry, well ventilated area. Pressurized 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

PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

HYDROCARBONS, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Long-term exposure limit (8-hour TWA): WEL 1200 mg/m³

HEXANE-norm

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m³

WEL = Workplace Exposure Limit

8.2 Exposure controls

Appropriate engineering controls: Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.

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: 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. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). 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.

Hygiene measures: Wash hands after handling. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin.

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	Clear
Odour	Organic solvents
Initial boiling point and range	-40 to -2°C @ 1013 hPa
Flash point	< -40°C
Upper/lower flammability or explosive limits	Lower: 1.8% - Upper: 9.5%
Vapour pressure	ca. 590 to 1760 kPa @ 45°C
Vapour density	ca. 1.5 at 15°C
Partition coefficient	log Pow: ca. 2.3 to 2.8
Auto-ignition temperature	410-580°C
Comments	Information given is applicable to the major ingredient

9.2 Other information

Volatile organic compound: This product contains a maximum VOC content of 560 g/l

Section 10: Stability and reactivity

10.1 Reactivity

Stable at normal ambient temperatures and when used as recommended.

10.2 Chemical stability

Avoid the following conditions: Heat, sparks, flames.

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. Avoid exposing aerosol containers to high temperatures or direct sunlight.

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: Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

Inhalation: In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.

Skin contact: Irritating to skin.

Eye contact: Vapour or spray in the eyes may cause irritation and smarting.

Acute and chronic health hazards: Arrhythmia (deviation from normal heart beat). Irritating to skin. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Route of entry: Inhalation

Target organs: Central nervous system, respiratory system, lungs

Medical symptoms: Skin irritation. Arrhythmia (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

Section 12: Ecological information

12.1 Toxicity

This product has not been tested but contains ingredients which are toxic or very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. During normal use the volatility of the components and the packaging form, pressurised container, make entry into the aquatic environment unlikely, however, do not empty or discharge into drains or watercourses. Ensure container is empty before disposal to prevent contents entering watercourses.

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

Bioaccumulative potential: Not available.

Partition coefficient: log Pow: ca. 2.3 to 2.8

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. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion.

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: 2.1

ADR/RID label: 2.1

IMDG class: 2.1

ICAO class/division: 2.1

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: (D)

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:

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H229 Pressurised container: may burst if heated

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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.