Safety data sheet

According to 1907/2006 EEC Article 31

Version: 6 Revision: 03.03.2020

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: Freeze Spray ref: SGFS1

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

No further relevant information available.

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category PC24 Lubricants, greases, release products

Process category

PROC7 Industrial spraying

PROC11 Non industrial spraying

Application of the substance / the mixture Screw loosing agent

1.3. Details of the supplier of the safety data sheet

Silverhook
Unit 14 Bates Road,
Harold Wood, London, England
RM3 0JH
Tel.: +44 (0) 1708330500
Fax: +44 (0) 1708330504
E-mail: 522@silverhook.co.uk
Responsible person email: 522@silverhook.co.uk

1.4. Emergency telephone number

+44 (0)1708330500 (during office hours)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

F+; Extremely flammable

R12: Extremely flammable.

R52/53-67: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
Warning! Pressurised container.
Has a narcotising effect.

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Hazard statements
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways. H412
Harmful to aquatic life with long lasting effects.

Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P251 Pressurized container: Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.
P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment.
P271 Use only outdoors or in a well-ventilated area.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P403 Store in a well-ventilated place.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Description
Active substance with propellant

Dangerous components		
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8)) F+ R12 Flam. Gas 1, H220; Press. Gas C, H280	50-<75%
EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Xn R65; Xi R38; F R11; N R51/53 R67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	10-<20%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane F+ R12 Flam. Gas 1, H220; Press. Gas C, H280	10-<25%
CAS: 8008-20-6 EINECS: 232-366-4	Kerosine (petroleum) Xn R65 Flam. Liq. 3, H226; Asp. Tox. 1, H304	2.5-<3%
CAS: 64742-65-0 EINECS: 265-169-7 Reg.nr.: 01-2119471299-27	Distillates (petroleum), solvent-dewaxed heavy paraffinic <0.1% Benzene Xn R65 Asp. Tox. 1, H304	1.0-<2.5%
	Mineral Oil Asp. Tox. 1, H304	1.0-<2.5%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	Acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	0.3-<1%
CAS: 21652-27-7	Imidazoline C R34; N R50/53 Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.25-<0.3%

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Additional information

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

After inhalation

Supply fresh air; consult doctor in case of complaints.

After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water.

After swallowing

Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents

Water haze

Fire-extinguishing powder

Carbon dioxide

Alcohol resistant foam

For safety reasons unsuitable extinguishing agents

Water with full jet

5.2. Special hazards arising from the substance or mixture
No further relevant information available.

5.3. Advice for firefighters
Protective equipment
Mount respiratory protective device.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up
Ensure adequate ventilation.

6.4. Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Information about fire - and explosion protection
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

7.2. Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and receptacles
Store in a cool location.
Observe official regulations on storing packaging with pressurised containers.

Information about storage in one common storage facility
Observe official regulations on storing packaging with pressurised containers.

Further information about storage conditions
Keep receptacle tightly sealed.
Do not seal receptacle gas tight.
Store in cool, dry conditions in well-sealed receptacles. Protect from heat and direct sunlight.

7.3. Specific end use(s)
No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities
No further data; see item 7.

8.1. Control parameters

• **Ingredients with limit values that require monitoring at the workplace:**	
106-97-8 butane (containing < 0.1% butadiene (203-450-8))	
WEL	Short-term value: 1810 mg/m‡, 750 ppm Long-term value: 1450 mg/m‡, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

(Contd. on page 5)

74-98-6 propane	
OEL	Short-term value: 3600 mg/m‡, 2000 ppm Long-term value: 1800 mg/m‡, 1000 ppm
67-64-1 Acetone	
WEL	Short-term value: 3620 mg/m‡, 1500 ppm Long-term value: 1210 mg/m‡, 500 ppm

• **DNELs**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
Oral	DNEL Long term-systemic	699 mg/kg bw/day (Consumer)
Dermal	DNEL Long term-systemic	699 mg/kg bw/day (Consumer) 773 mg/kg bw/day (Worker)
Inhalative	DNEL Long term-systemic	608 mg/m³ (Consumer) 2035 mg/m³ (Worker)

Additional information: The lists valid during the making were used as basis.

8.2. Exposure controls

Personal protective equipment

General protective and hygienic measures

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Respiratory protection

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Filter

AX/P2

Protection of hands

Protective gloves

Solvent resistant gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves Nitrile rubber, NBR

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection

Tightly sealed goggles

Body protection

Use protective suit.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

• **General Information**	
• **Appearance:**	
Form:	Aerosol
Colour:	According to product specification
• **Odour:**	Characteristic
• **Odour threshold:**	Not determined.
• **pH-value:**	Not determined.

• **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-44 °C
• **Flash point:**	-97 °C
• **Flammability (solid, gaseous):**	Not applicable.
• **Ignition temperature:**	> 200 °C
• **Decomposition temperature:**	Not determined.
• **Self-igniting:**	Product is not self-igniting.
• **Danger of explosion:**	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
• **Explosion limits:**	
Lower:	0.8 Vol %
Upper:	10.9 Vol %
• **Vapour pressure at 20 °C:**	8300 hPa
• **Density at 20 °C:**	0.598 g/cm‡
• **Relative density**	Not determined.
• **Vapour density**	Not determined.
• **Evaporation rate**	Not applicable.
• **Solubility in / Miscibility with water:**	Not miscible or difficult to mix.
• **Partition coefficient (n-octanol/water):**	Not determined.
• **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
• **Solvent content:**	
Organic solvents:	94.6 %
Solids content:	0.6 %
9.2. Other information	No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane		
Oral	LD50	>5840 mg/kg (rat)
Dermal	LD50	>2920 mg/kg (rabbit)

Inhalative	LC50/4h	>25 mg/l (rat)
64742-65-0 Distillates (petroleum), solvent-dewaxedheavy paraffinic <0.1% Benzene		
Oral Dermal Inhalative	LD50 LD50 LC50/4h	>5000 mg/kg (rat) >5000 mg/kg (rabbit) 5.53 mg/l (rat)
21652-27-7 Imidazoline		
Oral	LD50	>2000 mg/kg (rat)

Primary irritant effect:
on the skin: No irritant effect.
on the eye: No irritating effect.
Sensitisation: No sensitising effects known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity:	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
EL50 (72h)	30-100 mg/l (Pseudokirchneriella subcapitata)
EL50(48h) LL50 (96h) LOEC (21 days) NOEC (21 days) NOELR (72h)	3 mg/l (Daphnia magna) 11.4 mg/l (Oncorhynchus mykiss (96h)) 0.32 mg/l (Daphnia magna) 0.17 mg/l (Daphnia magna)
	3 mg/l (Pseudokirchneriella subcapitata)
21652-27-7 Imidazoline	
EC50	0.29 mg/l (Daphnia Magna 48h)
LC50	0.35 mg/l (Fish (96h))

12.2 Persistence and degradability
No further relevant information available.

12.3 Bioaccumulative potential
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

Ecotoxical effects
Remark: Harmful to fish
Additional ecological information
General notes
Generally not hazardous for water
Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects
No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging
Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN-Number

ADR, ADN, IMDG, IATA UN1950

14.2. UN proper shipping name

ADR, ADN UN1950 AEROSOLS
IMDG AEROSOLS
IATA AEROSOLS, flammable

14.3. Transport hazard class(es)

ADR

Class 2 5F Gases.
Label 2.1

ADN
ADN/R Class: 2 5F

IMDG, IATA

Class 2.1
Label 2.1

14.4. Packing group

ADR, IMDG, IATA Void

14.5. Environmental hazards

Marine pollutant: No

14.6. Special precautions for user

Warning: Gases.

Danger code (Kemler): -
EMS Number: F-D,S-U

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

Not applicable.

Transport/Additional information:

ADR
Limited quantities (LQ) 1L
Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity
Transport category 2
Tunnel restriction code D

IMDG
Limited quantities (LQ) 1L
Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

UN "Model Regulation": UN1950, AEROSOLS, 2.1

SECTION 15: REGULATORY INFORMATION

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

National regulations:

Technical instructions (air):

Class	Share in %
NK	75-<100

VOC-CH 94.60 %
VOC-EU 565.7 g/l
Danish MAL Code 5-3

15.2. Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

R11 Highly flammable.
R12 Extremely flammable.
R34 Causes burns.
R36 Irritating to eyes.
R38 Irritating to skin.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS: Research & Development

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
International Transport of Dangerous Goods by
Rail) ICAO: International Civil Aviation
Organisation
ADR: Accord europØen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of
Chemicals EINECS: European Inventory of Existing Commercial Chemical
Substances ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards,
Denmark) DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Gas 1: Flammable gases, Hazard Category 1

Flam. Aerosol 1: Flammable aerosols, Hazard Categor y 1
Press. Gas C: Gases under pressure: Compressed gas
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category
1B Skin Irrit. 2: Skin corrosion/irritation, Hazard
Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Ha zard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

Disclaimer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.