Vazor Ice

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
with its amendment Regulation (EU) 2015/830

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

1.1 Product identifier

Vazor Ice : (CAS No. 68476-40-4, EC No. 270-681-9)

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

Relevant identified uses: Instant freezing spray
Uses advised against: Personal care. Any use other than advised

1.3. Details of the supplier of the safety data sheet

Address: Killgerm Chemicals Ltd, Wakefield Road, Ossett, WF5 9AJ

Tel: +44 (0)1924 268 400 **Fax:** +44 (0)1924 265 033 **Email:** technical@killgerm.com

1.4. Emergency telephone number

Medical professionals should use National Poisons Information Service Tel: 0870 600 6266.

Killgerm Chemicals Ltd Tel:01924 268452 (Office hours)
Non-medical professionals should seek information by contacting NHS by dialling 111.

SECTION 2: Hazards identification

2.1. Classification of the mixture according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol Cat1:

H222 Extremely flammable aerosol
H229 Pressurised container: May burst if heated.

2.2. Label elements

Signal word: **Danger**

Hazard Statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

Aerosol that ignites easily even at low temperatures, fire risk.

The repeated inhalation of vapours can cause drowsiness and giddiness.

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

According to the Current EU criteria, this substance is not considered to be PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous Components in Product

Ingredient Name	Classification	H Phrases	P Phrases
Hydrocarbons, C3-4 CAS Number: 668476-40-4 EC Number: 270-681-9 Index Number: 649-199-00-1	Flam. Gas 1 Press. Gas (Comp.)	H220 H280	P210 P377 P381 P403 P410 +P403

The substance contains less than 0,1% w/w 1,3-butadiene (EINECS: 203-450-8).

See section 16 for full text of P phrases, H phrases and hazard classification of ingredients.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Contact with liquid form may cause frostbite. Never give anything by mouth to an unconscious person. Do not induce vomiting. Place unconscious person on their side in the recovery position and ensure breathing can take place. If breathing stops, provide artificial respiration.

Keep out of the reach of children.

Inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Seek medical advice.

Skin Contact: Rapid evaporation in contact with the skin may cause frostbite, Remove contaminated clothing and rinse skin thoroughly with water.

Eye Contact: Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Seek Medical advice.

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

In case of leakage, the liquid evaporates very quickly displacing the air and causing a serious risk of suffocation when in confined areas.

Acute Hazards/symptoms:

Inhalation: High concentrations in the air displace oxygen with the risk of drowsiness, unconsciousness, or death. The Substance may cause effects on the central nervous system.

Skin contact: Rapid evaporation in contact with the skin may cause frostbite.

Eye contact: Rapid evaporation in contact with the eye may cause frostbite.

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

If medical advice needed, have product container or label to hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing agents: CO_2, dry powder extinguisher, water spray.

Unsuitable extinguishing agents: High pressure water spray.

5.2. Special hazards arising from the substance or mixture

Containers can burst violently or explode when heated, due to excessive pressure build-up. The product is highly flammable.

5.3. Advice for firefighters

Ventilate closed spaces before entering them.
Move containers from fire area if it can be done without risk.
Containers close to fire should be removed or cooled with water. Be aware of danger of explosion.
Do not spray spilled material with more water than needed to fight the fire.
Risk of re-ignition after fire has been extinguished.
Control run-off water by containing and keeping it out of sewers and watercourses.
Fight advanced or massive fires from safe distance or protected location.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:
Leave the area surrounding the spill or release, retreating to safe distance. Do not smoke.
Wear suitable PPE as covered in **Section 8**.
For emergency responders:
In normal usage, it is unlikely that the spillage will occur.
However, if the container is damaged, and likely to cause a leak, isolate the canister by removing it to the open air or well-ventilated area away from any potential source of ignition that might pose a serious risk of fire.
Wear suitable PPE as covered in **Section 8**
Eliminate all unguarded flames and possible sources of ignition. No smoking.
Evacuate the danger area and, if in any doubt, seek specialist advice.

6.2. Environmental precautions

Ensure the area is well ventilated, and free of sources of ignition. Control access to the area until the released gasses have sufficiently dissipated.

6.3. Methods and material for containment and cleaning up

Allow damaged containers to release pressure in a secure well-ventilated location away from potential sources of ignition. Wait for released gasses to dissipate completely before returning. Dispose of container as if undamaged, according to local regulations.

6.4. Reference to other sections

See also sections 7, 8, and13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

When using the product, do not eat, drink or smoke.
Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.
Do not spray on an open flame or any incandescent material.
Avoid contact and inhalation of vapours. Use only in well ventilated locations.
Do not pierce or burn the container even after use.

7.2. Conditions for safe storage, including any incompatibilities

Observe official regulations on storing pressurised containers.
Store only in original container.
Keep container in a cool, dry location with good ventilation, protected from frost and direct sunlight.
Store securely upright to reduce the risk of falls or collisions.
Keep away from open flames, sparks and heat sources.

7.3. Specific end use(s)

Before using this product read the instructions for use.
Freezing spray for crawling insects' control.
Consumer and professional use

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No specific national limit values have been established.

8.2. Exposure controls

Where exposure may occur, engineering controls should take priority over personal protective equipment.
A risk assessment should be carried out and the following PPE may be appropriate /required.

PPE	Item In Use	Accidental Release
Respirators		
Gloves	Protective Gloves (EN 374). Nitrile.	Protective Gloves (EN 374). Nitrile.
Other skin protection	Basic type e.g. Heavy duty polycotton or coverall type 5/6.	coverall type 5/6.
Goggles / Face shield	Safety glasses to EN 166.	Safety glasses to EN 166.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Colourless Liquified gas
Odour:	Odourless.
Odour threshold:	N/A
pH:	[No data available]
Melting point/Freezing point:	<-100°C
Initial Boiling point and boiling range:	>-46°C
Flash Point:	<-80°C (ASTM D92)
Evaporation rate:	N/A
Flammability (Solid/Gas):	Flammable gas
Explosion Limits Lower:	1.8% (Vol)
Upper:	9.5% (Vol)
Vapor Pressure at 20°C:	4.4 bar
Density:	[No data available]
Relative density:	0.54 kg/l
Solubility:	[No data available]
Partition coefficient: n-Octanol/Water:	[No data available]
Auto ignition temperature:	>400°C
Decomposition temperature:	[No data available]
Viscosity:	[No data available]
Explosive properties:	[No data available]
Oxidising properties:	[No data available]

9.2. Other information

Aerosol Pressure @20°C	4.3 bar
Deformation pressure	16.5 bar
Burst pressure of the container	18 bar
Flashpoint of liquid phase	<0°C

SECTION 10: Stability and reactivity

10.1. Reactivity

Under recommended transport, handling, and storage conditions, the product does not show any dangerous reactions.

10.2. Chemical stability

Product is stable under normal conditions according to handling and storage

10.3. Possibility of hazardous reactions

None anticipated under normal use.

10.4. Conditions to avoid

Avoid extremes of temperature. Temperatures exceeding 50°C will cause an increase of internal pressure leading to deformation or bursting of the canister.
Store away from corrosive conditions, to prevent damage to the canaster.

10.5. Incompatible materials

It can generate inflammable gases to contact with elementary metals, nitrides, strong reducing agents.

It can generate toxic gases to contact with oxidants mineral acids, organic peroxides, organic water peroxides.

It can ignite in contact with oxidants mineral acids, organic nitrides, peroxides and water peroxides, strong oxidising agents.

10.6. Hazardous decomposition products

No dangerous decomposition products known under normal conditions of storage and use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

a) acute toxicity; Based on available data, the classification criteria are not met.

b) irritation; Based on available date the classification criteria are not met.

c) corrosivity; Based on available date the classification criteria are not met.

d) sensitisation; Based on available date the classification criteria are not met.

e) repeated dose toxicity; Based on available date the classification criteria are not met.

f) carcinogenicity/mutagenicity; Based on available date the classification criteria are not met.

g) toxicity for reproduction; Based on available date the classification criteria are not met.

11.2. Other Data

See section 2.3

SECTION 12: Ecological information

12.1. Toxicity

-**Aquatic and/or terrestrial toxicity:**
68476-40-4 Hydrocarbons, C3-4
LC50/48h 14.22 mg/l (daphnia magna) - Butane

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.

12.5. Results of PBT and vPvB assessment

Does not meet requirement for assessment.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1 Product / Packaging disposal: Waste codes / waste designations according to LoW:

Waste code: 160504
Waste Hazard: HP3 (flammable)

13.1.2 Waste treatment-relevant information:

Ensure aerosol canaster is empty before disposal.
All waste containers should be treated as hazardous, even if believed to be empty.
Do not attempt to pierce or crush empty canisters.
Dispose via licenced waste contractor.

13.1.3 Sewage disposal-relevant information:

Do not discharge to sewage.

13.1.4 Other disposal recommendations:

Disposal of the product, empty containers and contaminated packaging must be made in accordance with the local law.
Follow the waste hierarchy wherever possible.

SECTION 14: Transport information

14.1. UN number

UN1950

14.2. UN proper shipping name

ADR: 1950 AEROSOLS

IMDG: AEROSOLS

IATA: AEROSOLS, flammable

14.3. Transport hazard class(es).

Class 2 5F gasses (2.1)

Label 2.1

14.4. Packing Group

Not applicable

14.5. Environmental hazards

No

14.6. Special precautions for user

Warning: Gasses
Danger code (Kemler): -
EMS Number: F-D,S-U
Stowage Code SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
Segregation Code SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Not applicable.

SECTION 15: Regulatory information

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

a) Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830).
b) Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

15.2. Chemical safety assessment

Advice on product handling can be found in sections 7 and 8.

SECTION 16: Other information

Hazard and Precaution Phrases (full text)
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H220 Extremely flammable gas
H280 Contains Gas under pressure may explode if heated.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P377 Leaking gas fire – do not extinguish unless leak can be stopped safely.
P381 Eliminate all ignition sources if safe to do so.
P403 Store in a well ventilated place.
P410+P403 Protect from sunlight. Store in a well-ventilated place
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.

Use only in accordance with label instructions.
Operatives using this product should be trained in its use.
The information in this data sheet should be considered when undertaking a risk assessment under the COSHH regulations.

Issue number (date)	Section amended
Issue 1.0 (09/07/2019)	Creation of SDS

This safety data sheet does not constitute a COSHH assessment.
The information contained within this data sheet is strictly for general guidance only and should not be relied upon over and above this. This data sheet is intended to provide general health and safety guidance on the handling, storage and transportation of the preparation. The information provided in this data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted by Killgerm Chemicals Limited for any loss, injury or damage arising from any failure to comply with the information and advice contained within this data sheet and/or failure to comply with the manufacturer's guidelines, product label data and any associated technical usage literature.