

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 268 450

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) Emergency Line 0870 190 6777

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 cat. 1

H222: Extremely flammable aerosol

H229: Pressurised container: May burst if heated

2.2. Label elements



GHS02

Signal Word: Danger

Hazard statements:

H222: Extremely flammable aerosol

H229: Pressurised container: may burst if heated.

Precautionary statements:

P102: Keep out of reach of children

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: Pressurised container: Do not pierce or burn, even after use.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.

P403: Store in a well-ventilated area.

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.

Pressurised container, do not expose to temperatures exceeding 50°C

PBT: This material does not contain any substance identified as PBT or vPvB in concentrations equal to or greater than 0.1% by weight.

The mixture does not contain substances with endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

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SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous Components in Product

Ingredient Name	Concentration	Classification	H Phrases
Butane CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg. no.: 01-2119474691-32	51-70%	Flam. Gas 1A Press. Gas (Comp.)	H220, H280
Propane CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg. no.: 01-2119486944-21	16-25%	Flam. Gas 1A Press. Gas (Comp.)	H220, H280
Isobutane CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg. no.: 01-2119485395-27	16-25%	Flam. Gas 1A Press. Gas (Comp.),	H220, H280

The substance contains less than 0.1% W/W 1,3-butadiene (EINECS: 230-450-8).
See section 16 for full text of H phrases and hazard classification of ingredients.

SECTION 4: First aid measures

4.1. Description of first aid measures

- General:** If during or after use/exposure you begin to feel unwell, seek medical attention bringing a copy of the product label/the SDS. In case of leakage, the liquid evaporates very quickly displacing the air and causing a serious risk of suffocation when in confined areas.
- Eye contact:** Rinse cautiously with plenty of water for at least 10 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice.
- Skin contact:** Rapid evaporation in contact with skin may cause frostbite, remove contaminated clothing, and rinse skin thoroughly with plenty of soap and water. Consult a doctor if irritation persists.
- Ingestion:** Do not give anything by mouth to unconscious person. Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Seek medical advice.
- Inhalation:** Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If unconscious place person into recovery position and ensure breathing can take place. If breathing stops, provide artificial respiration.

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

- 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

Advice to doctor: Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents: Use dry powder or carbon dioxide extinguishing agents.

Unsuitable agents: water jet

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. Cool containers with water spray.

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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.

Wear self-contained breathing apparatus and appropriate protective equipment.

Fire residues and contaminated extinguishing media should be disposed according to current regulation. Do not allow extinguishing media to enter sewers, ground water or water courses

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. Inform the relevant authorities in the event of spillage into a watercourse or sewer system. Avoid contamination of water and sewage system by the product spill.

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 section 8 for protective clothing

See section 7 for safe handling

See section 13 for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Read label before using product and use only as directed.

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.

Keep out of reach of children.

Store only in original container. Keep away from acidic or basic products.

Keep container in a cool, dry location with good ventilation, protected from frost and direct sunlight.

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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)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with workplace exposure limits:

106-97-8: n-butane

Long term exposure limit (8hr): 1450mg/m³, 600ppm

8.2. Exposure controls

Where exposure may occur engineering controls should be employed. A risk assessment should be carried out and the following PPE may be appropriate /required.

PPE	Item in use	Spillage
Respirators	Not needed under normal use and adequate ventilation.	Not needed under normal use and adequate ventilation.
Gloves	Protective Gloves to EN 374 Nitrile or PVC.	Protective Gloves to EN 374 Nitrile or PVC.
Overall	Basic type e.g., Heavy duty polycotton or coverall type 5/6.	Basic type e.g., Heavy duty polycotton or coverall type 5/6.
Goggles / Face shield	Safety glasses to EN 166	Safety glasses to EN 166

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink, and animal feeding stuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Colourless liquified gas.
Odour:	Characteristic.
Odour threshold:	No data available
pH:	No data available
Melting point/freezing point:	<-100°C.
Initial boiling point/boiling range:	>-42°C.
Flash point:	<-80°C. (ASTM D92)
Evaporation rate:	Not applicable.
Flammability:	flammable gas.
Upper/lower flammability or explosive limits:	Upper: 9.5% vol. Lower: 1.8% vol.
Vapor pressure:	4.4 Bar @20°C.
Vapor density:	>2
Relative density:	0.54 kg/l
Solubility(ies):	No data available.
Partition coefficient n-octanol/water (log Kow):	No data available.
Auto-ignition temperature:	>400°C.
Decomposition temperature:	No available data.
Viscosity:	No available data.
Explosive properties:	No available data.
Oxidising properties:	No available data.

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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 reaction
Isobutane: Reacts with strong oxidants, acetylene, halogens, and nitrogen oxides, causing fire and explosion hazard.

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.

Contact with hot surfaces can cause thermal shock and an immediate violent reaction.

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 canister. During storage of the product, protect from humidity and water. Container under pressure: do not puncture or burn even after use.

Product is stable for more than 36 months. Under normal storage conditions hazardous reactions can't occur as the container is hermetically sealed.

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

Classification of the product was conducted by calculation method according to regulation 1272/2008, based on the content of hazardous ingredients:

- a) **acute toxicity:** Based on data available classification criteria are not met.
- b) **irritation:** Based on data available classification criteria are not met.
- c) **corrosivity:** Based on data available classification criteria are not met.
- d) **sensitisation:** Based on data available classification criteria are not met.
- e) **repeated dose toxicity:** Based on data available classification criteria are not met.
- f) **carcinogenicity:** Based on data available classification criteria are not met.
- g) **germ cell mutagenicity:** Based on data available classification criteria are not met.
- h) **toxicity for reproduction:** Based on data available classification criteria are not met.
- i) **aspiration:** No information.

Specific target organ toxicity (STOT) — single exposure: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) — repeated exposure: Based on available data, the classification criteria are not met.

Additional toxicological indications:

Hydrocarbons	Routes of exposure: The substance can be absorbed if inhaled. Inhalation Hazard: Liquid evaporates very quickly, displacing air and causing a serious risk of suffocation in confined spaces. SHORT-TERM EXPOSURE: Rapid evaporation of liquid may cause frostbite. The substance may have effects on the central nervous system.
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	Acute symptoms: Inhalation: Drowsiness. Unconsciousness. Skin in contact with liquid: Frostbite. Eyes on contact with liquid: Frostbite. Notes: High concentrations in the air cause a lack of oxygen with a risk of loss of consciousness or death.
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11.2. Other Data

See section 2.3

The mixture does not contain substances with endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 12: Ecological information

12.1. 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

Disposal of the product, empty containers and contaminated packaging must be made in accordance with the local law.

Dispose of unused product in the original container as hazardous waste.

Ensure aerosol canister 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.

Empty containers and contaminated PPE should be considered hazardous and disposed of appropriately.

Suggested waste code: 16 05 04 (HP3 Flammable).

SECTION 14: Transport information

14.1. UN number

UN 1950

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

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14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable.

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

Labelling according to The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019

Control of Substances Hazardous to Health Regulations 2002 (as amended).

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

This product does not contain substances identified as Persistent Organic Pollutants (POPs)

The product does not contain any substances listed in Annex XIV.

Regulation (EC) No. 1907/2006, ANNEX XVII Restriction conditions: 3, 40

Regulation (EU) No. 649/2012 (PIC) There are no substances listed in this regulation.

The mixture does not contain explosive precursors at concentrations equal to or greater than 1%.

Substances of very high concern (SVHC) according to REACH, Article 59

The mixture does not contain SVHC substances in concentrations equal to or greater than 0.1% by weight.

Regulation (EC) No. 1005/2009: substances that deplete the ozone layer

The mixture does not contain substances that deplete the ozone layer.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

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.

Ingredient classification data:

Aerosol cat. 1

H222: Extremely flammable aerosol

H229: Pressurised container: May burst if heated

Flammable Gas Cat.1

H220: Extremely flammable gas

Pressurised Gas (Compressed)

H280: Contains gas under pressure; may explode if heated

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Issue number (date)	Section amended
Issue (July 2019)	First creation.
Issue (Sept 2020)	Update to style and layout – some updates to minor wording.
Issue (Dec2020)	Amended EUH phrase to read EUH401 not EUH410
Issue (Jan 2022)	Added Emergency number – Update to section 15 Legislation.
Issue (Nov 2023)	Update to sections 2.2, 6.2, 10 and 11. Updates to phasing and wording.

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.