

Safety Data Sheet

Arctic Frost 55, Arctic Frost 45, Arctic Frost 35, Arctic Chill 50, Arctic Chill 40, Arctic Chill 30, Arctic Chill 8

Revision date: 04/30/2024
Version: 2.0.0

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

1.1. Product identifier

Trade name: Arctic Frost 55, Arctic Frost 45, Arctic Frost 35, Arctic Chill 50, Arctic Chill 40, Arctic Chill 30, Arctic Chill 8

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

Recommended uses: Portable cool box Portable cool box.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Oase Outdoors ApS
Address: Kornvej 9
Zip code: 7323
City: Give
Country: DENMARK
E-mail: mpm@oase-outdoors.dk
Phone: +45 70 22 85 00

1.4. Emergency Telephone Number

+45 70 22 85 00 (Oase Outdoors Aps)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

CLP Classification - other information: According to REACH, the product is an article and is consequently not subject to the requirement for a safety data sheet. The intact article does not pose any danger. This safety data sheet describes the danger of the mixture inside the article. Contact is only possible if the article is not intact. The mixture inside the article has the following hazardous characteristics:

Most serious harmful effects: Extremely flammable gas. Contains gas under pressure, may explode if heated.

2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
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2,3,3,3-Tetrafluoropropene	754-12-1 616-22-0	100 %		Flam. Gas 1B;H221 Press. Gas liq. gas;H280
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Please see section 16 for the full text of H- / EUH-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	Seek fresh air. Seek medical advice in case of persistent discomfort.
Ingestion:	Not relevant as the product is an article.
Skin contact:	Seek medical advice immediately if symptoms indicate that the gas has been absorbed through the skin. On frostbite: rinse with plenty of lukewarm water (max 37°C). Do not remove clothes until thawed. Seek medical advice.
Eye contact:	Not relevant as the product is an article. Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice in case of frostbite.
Burns:	Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.
General:	When obtaining medical advice, show the safety data sheet or label.

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

Splashes of gas in the eyes may cause frostbite.

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

Treat symptoms. No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.
Unsuitable extinguishing media:	Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Heating will induce a significant increase in pressure with a risk of bursting. Remove the pressurized cylinder from the danger area if it can be done without risk. Keep well away from the fire. Cool with a water stream if possible. Avoid inhalation of vapour and flue gases - seek fresh air.

5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Smoking and naked flames prohibited.

For emergency responders: In addition to the above: No special requirements.

6.2. Environmental precautions

Avoid unnecessary release to the environment.

6.3. Methods and material for containment and cleaning up

Not relevant as the product is an article.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No special requirements.

7.2. Conditions for safe storage, including any incompatibilities

No special storage requirements.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements.

Measuring methods: Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: Commission Directive 2000/39/EC (Occupational Exposure Limits) as subsequently amended. Last amended by Commission Directive 2019/1831/EU. Directive 2004/37/EC (Exposure to carcinogens or mutagens at work) as subsequently amended. Last amended by Directive 2022/431/EU. Resolution 2019/2182(INL) (Protecting workers from asbestos) as subsequently amended. Last amended by resolution 2022/C 184/03.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Not relevant as the product is an article.

Personal protective equipment, skin protection: Not relevant as the product is an article.

Personal protective equipment, hand protection: Not relevant as the product is an article.

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Personal protective equipment, Not required.
respiratory protection:

Environmental exposure controls: Not relevant as the product is an article.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Solid article. Containing: Liquefied gas
Colour	Colourless
Odour	No data
Solubility	No data

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	-101 °C	CAS no. 754-12-1
Freezing point	No data	
Initial boiling point and boiling range	-29.4 °C	CAS no. 754-12-1
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Flash Point	No data	
Auto-ignition temperature	No data	
Decomposition temperature	> 370 °C	CAS no. 754-12-1
pH (solution for use)	No data	
pH (concentrate)	No data	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water	No data	
Vapour pressure	No data	
Density	No data	
Relative density	No data	
Vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

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The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources.

10.5. Incompatible materials

None known. (Isobutane)

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral: The product does not have to be classified. Test data are not available.

Acute toxicity - dermal: The product does not have to be classified. Test data are not available.

Acute toxicity - inhalation

2,3,3,3-Tetrafluoropropene, cas-no 754-12-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	4h	> 400000 ppm			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Skin corrosion/irritation: The product does not have to be classified. Test data are not available.

Serious eye damage/eye irritation: The product does not have to be classified. Splashes of gas in the eyes may cause frostbite. Test data are not available.

Respiratory sensitisation or skin sensitisation: The product does not have to be classified. Test data are not available.

Germ cell mutagenicity: The product does not have to be classified. Test data are not available.

Carcinogenic properties: The product does not have to be classified. Test data are not available.

Reproductive toxicity: The product does not have to be classified. Test data are not available.

Single STOT exposure: The product does not have to be classified. Test data are not available.

Repeated STOT exposure: The product does not have to be classified. Test data are not available.

Aspiration hazard: The product does not have to be classified. Test data are not available.

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11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

The product does not have to be classified. Test data are not available.

12.2. Persistence and degradability

2,3,3,3-Tetrafluoropropene, cas-no 754-12-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28d		3 %			

Not relevant as the product is an article.

12.3. Bioaccumulative potential

2,3,3,3-Tetrafluoropropene, cas-no 754-12-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	1.06			

Not relevant as the product is an article.

12.4. Mobility in soil

2,3,3,3-Tetrafluoropropene, cas-no 754-12-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Koc	1.5			

Not relevant as the product is an article.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste (Dir. 2008/98/EU). Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.
Be aware of waste electrical and electronic equipment (WEEE) directive Waste electrical and electronic equipment (WEEE).

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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	3358	14.4. Packing group:	
14.2. UN proper shipping name:	REFRIGERATING MACHINES	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	2.1		
Hazard label(s):	2.1		
Hazard identification number:		Tunnel restriction code:	D
Other Information:	Refrigerating machines and refrigerating-machine components are not subject to the provisions of ADR if they contain less than 12 kg of gas Refrigerating-machine components are not subject to the provisions of ADR/RID if they contain less than 12 kg of gas.		

Inland water ways transport (ADN)

14.1. UN number or ID number:	3358	14.4. Packing group:	
14.2. UN proper shipping name:	REFRIGERATING MACHINES	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	2.1		
Hazard label(s):	2.1		
Transport in tank vessels:	Refrigerating-machine components are not subject to the provisions of ADN if they contain less than 12 kg of gas.	Other Information:	Refrigerating machines and refrigerating-machine components are not subject to the provisions of ADN if they contain less than 12 kg of gas

Sea transport (IMDG)

14.1. UN number or ID number:	3358	14.4. Packing group:	
14.2. UN proper shipping name:	REFRIGERATING MACHINES	14.5. Environmental hazards:	The product is not a Marine Pollutant (MP).
14.3. Transport hazard class(es):	2.1	Environmental Hazardous Substance Name(s):	
Hazard label(s):	2.1		
EmS:	F-D, S-U	IMDG Code segregation group:	- None -

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Other Information: Refrigerating machines and refrigerating-machine components are not subject to the provisions of IMDG if they contain less than 12 kg of gas
Refrigerating-machine components are not subject to the provisions of IMDG if they contain less than 12 kg of gas.

Air transport (ICAO-TI / IATA-DGR)

14.1. UN number or ID number:	3358	14.4. Packing group:	
14.2. UN proper shipping name:	REFRIGERATING MACHINES	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	2.1		
Hazard label(s):	2.1	Other Information:	Refrigerating machines and refrigerating-machine components are not subject to the provisions of IATA if they contain less than 100 g of gas Refrigerating-machine components are not subject to the provisions of ICAO/IATA if they contain less than 100 g of gas.

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

Special Provisions: ROHS 2011/65/EU, WEEE 2012/19/EU, CE 2008/765/EC
Regulation (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014 on fluorinated greenhouse gases.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
2.0.0	04/30/2024	Bureau Veritas HSE / CGJ	-

Abbreviations: PBT: Persistent, Bioaccumulative and Toxic

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vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity

Other Information:

This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

Training advice:

A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method:

Calculation based on the hazards of the known components.

Hazard statements

H221
H280

Flammable gas.
Contains gas under pressure, may explode if heated.

SDS is prepared by

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