

B-55 COMPRESSED GAS PLUS ml.400 (Aerosol)

1. Identification of the substance/mixture and of the company/undertaking.

1.1 Product Identification

Code: B55 Plus

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

Remove dust and moisture from electronic equipment.

2. Hazard Identification

2.1 Classification of the substance or mixture.

According to Directives 1999/45/EC and 67/548/EC and Regulation EC 1272/2008 (CLP) and subsequent amendments and updates the content is not dangerous.

2.2 Label Elements

Danger symbols:	None
Warning:	None
R phrases:	None
Hazard phrases:	S2 Keep out of the reach of children S23 Do not breathe spray. S51 Use only in well ventilated areas.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50° C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. 13% by mass of the contents are flammable. The product does not require labeling of danger within the meaning of EC Regulation 1272/2008 (CLP) and subsequent amendments and adjustments. The container has been filled in accordance with Directive 75/324/EEC dated 20/05/1975 and subsequent amendments (Directive 2008/47/EC).

2.3 Other Hazards

The container is under pressure: 4.5 bar at 20°C. Above 50°C compromises its ability to seal and can explode. The liquid phase of the product on the skin and eyes causes frostbite.



Important Notice: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © Antistat 2020.

B-55 COMPRESSED GAS PLUS ml.400 (Aerosol)

3. Composition/Information of Ingredients

3.1 Substances

Information not relevant.

3.2 Mixtures

CONTAINS

Substance	CAS nr.	EEC nr.	w/w %	Classification 67/548/EEC	Classification 1272/2008 (CLP)
1,1,1,2-Tetrafluoroethane* (HFC- 134a)	811-97-2	212-377-0	80-100	---	Liq. Gas (H280)
1,1-Difluoroethane (HFC 152a) Reg.REACH 05- 2114321261-67-0000	75-37-6	200-866-1	10-20	F+, R12	Flam.Gas 1 (H220), Liq.Gas (H280)

*Present in Annex IV/V of REACH; exempt from the registration. Registration deadline is not exceeded.

The product contains no substances classified as dangerous to health or the environment in accordance with the provisions of Directive 67/548/ EEC and / or Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments. Contains no other components or impurities which will influence the classification of the product.

4. First Aid Measures

4.1 Description of first aid measures

Inhalation	Remove to open air
Contact with skin and eyes	Immediately rinse eyes with water for at least 15 minutes. In case of frostbite rinse with water for at least 15 minutes. Apply a sterile dressing. Seek medical assistance.
Ingestion:	Unlikely occurs

4.2 Most important symptoms and effects, both acute and delayed

Contact with liquid may cause frostbite. For symptoms and effects caused by the contained substances see chap. 11.

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

Follow doctor's orders.

Important Notice: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © Antistat 2020.

B-55 COMPRESSED GAS PLUS ml.400 (Aerosol)

5. Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing media: All extinction equipment should be suitable (carbon dioxide, foam or chemical powders).

Extinguishing media which shall not be used for safety reasons: None

5.2 Special hazards arising from the substance or mixture

Hazards caused by exposure in the event of fire

The content is non flammable, but excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products: carbon oxide, hydrofluoric acid, carbonyl fluoride.

5.3 Advice for firefighters

General information

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water and the remains of the fire according to applicable regulations.

Special protective equipment for fire-fighters

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist) work gloves (fireproof, cut proof and dielectric), self-respirator (self-protector).

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

The content evaporates completely and rapidly: provide adequate ventilation. Use breathing equipment if fumes or powders are released into the air. Do not handle damaged containers or leaked product before donning appropriate protective gear. Send away individuals who are not suitably equipped. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, refer to the other sections of this sheet.

6.2 Environmental precautions

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

6.3 Methods and material for containment and cleaning up

Make sure the leakage site is well aired.

6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

Important Notice: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © Antistat 2020.

B-55 COMPRESSED GAS PLUS ml.400 (Aerosol)

7. Handling and Storage

7.1 Precautions for safe handling

Do not slam the container. Do not pierce or burn, even after use. Do not spray on naked flame or incandescent material. Avoid direct inhalation and spray in eyes. Avoid improper or excessive use of the product. Do not spray the product keeping the spray upside down: in case of contact with the liquid phase, frostbite could occur. Avoid contact with eyes and skin. Ensure adequate ventilation during use.

7.2 Conditions for safe storage, including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep out of reach of children.

7.3 Specific end uses

Information not available.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Information not available.

8.2. Exposure controls

Recommended a good ventilation of the workspace.

Hand Protection:	Provide a hand protection appropriate to the conditions of use.
Eye Protection:	Although eye contact is not expected under normal conditions of use reasonably foreseeable, it would be appropriate to use proper eye protection when handling this material.
Skin Protection:	Provide a skin protection appropriate to the conditions of use.
Respiratory Protection:	We do not recommend the use of special equipment for respiratory protection under normal conditions of use with adequate ventilation. Do not breathe or inhale mist spray.

9. Physical and Chemical Properties

Appearance:	Aerosol containing liquid gas	Boiling point:	-26°C
Colour:	not coloured	Critical temperature:	n.a
Odour:	ethereal	Vapour pressure [20°C]:	5.6 bar
pH:	neutre	Vapour density (air=1):	n.a
Molecular Weight:	n.a	Liquid density:	1.173 kg/l at 20°C
Melting or freezing point:	n.a	Solubility in water[mg/l]:	insoluble

Important Notice: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © Antistat 2020.

B-55 COMPRESSED GAS PLUS ml.400 (Aerosol)

9.2 Other Information

VOC (Direttive 1999/13/EC): 0

VOC (Volatile Carbon): 0

10 Stability and Reactivity

10.1 Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical stability

The product is stable in normal conditions of use and storage

10.3 Possibility of hazardous reactions

Stable under normal temperature and pressure.

10.4 Conditions to avoid

Do not expose the aerosol dispenser to temperatures above 50°C.

10.5 Incompatible materials

Alkali metals. Alkaline earth metal. Metal powder.

10.6 Hazardous decomposition products

In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

11. Toxicological information

11.1 Information on toxicological effects

Inhalation:	It can cause irregular heart beat and nervous symptoms
Skin:	Contact with liquid may cause frostbite
Eyes:	Contact with liquid may cause frostbite
Ingestion:	Unlikely occurs
Inhalation (rabbit) LC50 [ppm/4h]:	Information not available

12. Ecological Information

12.1 Toxicity

96 Ore-CL50:	HFC-134a: Salmo gairdneri: 350 mg/l
	HFC-152a: not available

Important Notice: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © Antistat 2020.

B-55 COMPRESSED GAS PLUS ml.400 (Aerosol)

12.2 Persistence and degradability

HFC-134a: Minimally biodegradable.

(Atmospheric life time ranges from 12.5 to 24 years) [DOSE, 3rd edition] HFC-152a: not available

48 hours -EC50 - Daphnia magna [mg/l]:

HFC-134a: 980

HFC-152a: not available

12.2 Bioaccumulative potential

None.

12.4 Mobility in soil

Volatile liquid.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

Ecological effects information:

Not covered by the Montreal Protocol.

Discharged in large quantities may contribute to the greenhouse effect.

Global Warming Potential (GWP):

HFC-134a: 1430

HFC-152a: 124

Ozone depletion potential:

HFC-134a: 0

HFC-152a: 0

HGWP (Halocarbon Global Warming Potential):

HFC-134a: 0.28

HFC-152a: 0.03

13. Disposal Considerations

13.1 Waste treatment methods

Do not empty into drains. The container must be emptied completely. Disposal should be in place authorized under the relevant national or regional.

Important Notice: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © Antistat 2020.

B-55 COMPRESSED GAS PLUS ml.400 (Aerosol)

14. Transport Information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road/Railway (ADR/RID), by Sea (IMO) and by AIR (IATA) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:

Class ADR/RID:	2
UN:	1950
PG:	NA
Classification code:	5A
Label:	2.2
Limited Quantity:	LQ2
Tunnel restriction code:	(E)
Proper Shipping Name:	AEROSOL

Carriage by sea (shipping):

Class IMO:	2.2
UN:	1950
PG:	NA
Label:	2.2
EmS:	F-D, S-U
Marine Pollutant:	NO
Proper Shipping Name:	AEROSOLS

Carriage by air:

Class IATA:	2.2
UN:	1950
Label:	RNG
PG:	NA
Packaging inst.:	LQ 203, PAX 203, CAO 203
Proper Shipping Name:	AEROSOLS NON FLAMMABLE

15. Regulatory Information

15.1 Safety, health and environmental regulation/legislation specific for the substance/mixture

Ensuring compliance with all relevant national and regional regulations.

Seveso regulation 96/82/EC: Not included.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006: none

Important Notice: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © Antistat 2020.

B-55 COMPRESSED GAS PLUS ml.400 (Aerosol)

Substances in Candidate List (art.59 REACH): none

Substances subject to authorisation (Annex XIV REACH): none

The container has been filled in accordance with Directive 75/324/EEC dated 20/05/1975 and subsequent amendments (Directive 2008/47/ EC).

15.2 Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

16. Other Information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H280 **Liq. Gas** **Contains gas under pressure; may explode if heated.**

H221 **Flam.Gas** **1 Extremely flammable gas.**

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R12 **EXTREMELY FLAMMABLE**

General Bibliography

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 453/2010 of the European Parliament
6. Directive 75/324/CE dated 20/05/1975 and following amendments
7. Directive 2008/47/CE

This Safety Data Sheet has been compiled in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national legislation.



Buy online at
www.antistat.com



Call us on
+44 (0)1473 836 200



Email us at
info@antistat.com



Message us on Live Chat
www.antistat.com

Important Notice: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © Antistat 2020.