



PRODUCT SAFETY DATA SHEET
(according to Regulation (EC) No. 453/2010)

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

1.1 Product Identifier

Trade Name : **FORTRON AIR CONDITIONING TREATMENT AEROSOL (FACT)**

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

Use of the Substance/Mixture : For air conditioning systems.

Recommended restrictions : At this time we do not have information on restrictions on use. They will be included when available.

1.3 Details of the supplier of the safety data sheet

Company : Fortron International, Unit 4 Cannel Road, Burntwood Business Park, Burntwood, Staffordshire, Ws7 3Fu

1.4 Emergency telephone number

Emergency phone number : (Office hours only): 01543 679 900

2. Hazards Identification.

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Category	Hazard Statements
Flammable Aerosol	Category 1	H222

Classification according to EU Directive 1999/45/EC

Refer to Section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard Symbols:



Signal word: **Danger**

Hazard Statements: H222 Extremely flammable aerosol

Precautionary Statements:

General:

P101: If medical advice is needed, have product container or label at hand

Prevention:

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.

P260: Do not breathe/mist/vapour/spray.

Response:

P370 + P378: In case of fire: Use foam, dry powder, CO₂, fine water spray for extinction. Spray exposed container with water to avoid bursting

P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F

Hazardous components which must be listed on the label

Contains Butane and Propane

Labelling according to EU Directive 1999/45/EC

Refer to Section 16.

2.3 Other hazards

None known

3. Composition/Information on Ingredients.

3.2 Mixtures

Substances presenting a health or environmental hazard according to Directive 67/548/EEC or Regulation EC1272/2008

Ingredient Name	Identifiers	Classification 67/548/EEC	Classification EC/1272/2008	Concentration Range
n-Butane	EC 203-448-7 CAS 106-97-8 Reach - 01- 2119474691-32-xxxx	Extremely Flammable R12	Flam. Gas 1 H220	25-50%
Ethanol	EC 200-578-6 CAS 64-17-5 Reach - 01- 2119457610-43-xxxx	Flammable R11	Flam. Liq. 2 H225	25-50%
Propane	EC 200-827-9 CAS 74-98-6 Reach - 01- 2119486944-21-xxxx	Extremely Flammable R12	Flam. Gas 1 H220	10-25%
2-Propanol	EC 200-661-7 CAS 67-63-0 Reach - 01- 2119457558-25-xxxx	Highly Flammable R11 Irritant R36 R67	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336	1-2.5%

Additional information: For the wording of the listed risk phrases and hazard statements, refer to section 16.

4. First Aid Measures.

4.1 Description of first aid measures

Eye Contact: Flush with clean water for 15minutes. If irritation persists, obtain medical attention.

Skin Contact: Wash off with water. The application of skin reconditioning (emollient) cream can be beneficial.

Inhalation: Remove to fresh air. If symptoms persist, seek medical advice.

Ingestion: Water to drink and rinse may be beneficial. Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms of ingestion or inhalation include drunkenness, nausea, muscular un-coordination and unconsciousness.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically. **Aspiration Hazard. May cause rapid absorption via lungs, resulting in injury to other body systems. Do not induce vomiting without medical advice.**

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5. Fire Fighting Measures:

5.1 Extinguishing Media

Suitable Extinguishing Media : Foam, Dry Powder, Co2, Powder, fine water spray/mist suitable.

Unsuitable Extinguishing Media : Water jet.

5.2 Special hazards arising from the substance or mixture

Classed as extremely flammable. Fire exposed containers should be sprayed with water to keep cool and avoid bursting.

5.3 Advice for fire fighters

Wear self contained breathing apparatus and protective clothing. Cool closed containers exposed to the fire with water spray. Prevent water run-off from discharging into drains.

6. Accidental Release Measures.

6.1 Personal precautions, protective equipment and emergency procedures

Remove ignition sources. Wear protective equipment. Keep unprotected persons away. Use protective clothing, chemical eye goggles and PVC or rubber gloves. Avoid contact with skin and eyes.

6.2 Environmental precautions

Prevent from spreading (e.g. by dusting a ring of chemical binder). Inform authorities in case of contamination of water or sewage system. Do not allow product to soak into drains or water courses.

6.3 Methods and materials for containment and cleaning up

Ensure adequate ventilation. Exclude sources of ignition. Wash down floor area as spillages can be slippery. Do not allow product to soak into drains, water courses, sewers or pits where the vapour may produce an explosive atmosphere. Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent. Advice can be obtained from the Waste Regulation Authority whether special waste regulations apply to this product.

6.4 Reference to other sections

For personal protection refer to section 8

7. Handling and Storage.

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Observe good standards of industrial hygiene. Take note of emission threshold.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations. Pressurised container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material. Store in a cool dry place away from heat or sources of combustion.

7.3 Specific end uses

Aerosol cleaning product.

8. Exposure Controls/Personal Protection.

8.1 Control parameters

Ingredient Name		8hr TWA	15min STEL
n-Butane	WEL	600ppm	750ppm
Propane	(Supplier)	1000ppm	2000ppm
Ethanol	WEL	1000ppm	
2-Propanol	WEL	400ppm	500ppm

8.2 Exposure controls

Respiratory Protection: Not necessary if used as directed. Ensure good ventilation. Air fed respiratory equipment should be worn when this product is sprayed in areas where levels cannot be controlled to below the occupational exposure limit.

Hand: PVC or rubber gloves are recommended.

Eyes: Safety eye goggles should be worn.

Skin: Use protective clothing. Remove contaminated clothing and wash with soap and water.

8.3 Environmental exposure controls

Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent.

9. Physical and Chemical Properties.

9.1 Information on basic physical and chemical properties

Appearance:	Aerosol containing contains liquid
Odour:	Characteristic
Odour Threshold:	Not determined
pH Neat:	Not determined
Freezing Point:	Not determined
Initial Boiling Point & Boiling Range:	-44°C
Flash Point:	-97°C
Evaporation rate:	Not determined
Flammability:	Extremely Flammable
Upper/Lower Flammability Limits:	Not determined
Vapour Pressure:	No information
Vapour Density:	Not determined
Relative Density:	0.65 @ 20°C
Solubility:	Not applicable
Partition Coefficient (Oct/Water):	Not determined
Auto Ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Viscosity:	Not determined
Explosive Properties:	1.5% to 15% (in air v/v)
Oxidising Properties:	Not applicable

9.2 Other Information

No other information available.

10. Stability and Reactivity.

10.1 Reactivity

No information available

10.2 Chemical Stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to Avoid:

Pressurised container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material. Protect against naked flames, hot surfaces, sparks, ungrounded electrical equipment, and other high temperature sources.

10.5 Incompatible materials

10.6 Hazardous decomposition products

Carbon dioxide, Carbon Monoxide. Product is stable under normal conditions.

11. Toxicological Information.

11.1 Information on toxicological effects

Eyes: Product is likely to cause temporary irritation and stinging. If untreated can lead to conjunctival irritation and corneal damage.

Skin: Not classified as a skin irritant. Brief or occasional contact is unlikely to cause any significant reaction. Prolonged or repeated contact may lead to de-fatting of the skin and/or slight irritation.

Inhalation: Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness, and loss of consciousness. The vapour in high concentrations can cause intoxication, headache & nausea.

Ingestion: May cause nausea, vomiting, diarrhoea and depression of the nervous system. Principal effect of ingestion is CNS depression. Signs and symptoms include nausea, vomiting, muscular un-coordination, visual impairment and unconsciousness. Aspiration Hazard. May cause lung damage if material gets into lungs after swallowing, breathing vapour/spray or vomiting swallowed material.

Acute Toxicity:	Butane	LC50 Inhalation (rat)	658mg/l
	2-Propanol	LD50 Oral (rat)	5840mg/kg
		LC50 Inhalation (rat)	25000mg/m3

12. Ecological Information.

12.1 Toxicity

Eco-toxicity:	Aliphatic Hydrocarbon	LC50 96hrs (fish)	1-10 mg/l
	Ethanol	LC50 96hrs (fish)	>8000 mg/l
		EC50 48hrs (daphnia)	>9000 mg/l

12.2 Persistence and Degradability:

Inherently biodegradable according to OECD guidelines.

12.3 Bio-accumulative potential

Not expected to bio-accumulate

12.4 Mobility in soil

Will evaporate from land spillage.

12.5 Results of PBT and vPvB assessment

No information

12.6 Other adverse effects

Not known.

13. Disposal Recommendations.

13.1 Waste treatment methods

Product should be disposed of via an authorised waste disposal contractor in accordance with all local and national regulations. Dispose of empty containers in accordance with local and national regulations. Advice can be obtained from the Waste Regulation Authority whether special waste regulations apply to this product.

14. Transport Information.

14.1 UN number

1950

14.2 UN Proper shipping name

ADR Aerosols (Limited Quantity)

IMDG Aerosols (Limited Quantity)

14.3 Transport hazard classes

ADR Class : 2.1
Classification code : 5F
Tunnel restriction code : (D)
Labels : Class 2.1 (Aerosol is limited quantity)



IMDG Class : 2.1
EMS : F-D, S-U
Labels : Class 2.1 (Aerosol is limited quantity)



14.4 Packing group

ADR : Not applicable
IMDG : Not applicable

14.5 Environmental hazards

Labelling according to 5.2.1.8 ADR : No
Labelling according to 5.2.1.6.3 IMDG : No
Classified as \pm PqMarine pollutant according to 2.10 IMDG : No

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code

Not applicable

15. Regulatory Information.

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

Safety data sheet according to Regulation (EC) No. 453/2010.

This mixture has been classified and labelled in accordance with 1999/45/EC. Classification in accordance with EC 1272/2008 is derived from Annex VII in accordance with Article 61 paragraph 5.

1907/2006/EC - Registration, Evaluation, Authorisation and Restriction of Chemicals and amendments.

98/24/EC - Protection of workers from the risk related to chemical agents at work. Refer to Directive for details of requirements.

1272/2008 - Classification, labelling and packaging of substances and mixtures and amendments.

Refer to the relevant EU/national regulation for details of any actions or restrictions required by the above Regulation(s)/Directive(s).

The regulatory information provided may not be comprehensive. Other regulations may apply to this product.

15.2 Chemical safety assessment

No information at the present time.

16. Other Information.

Classification according to EU Directive 1999/45/EC

Hazard Symbol/Category of danger	Risk Phrases
Extremely Flammable	R12

Labelling according to EU Directive 1999/45/EC

Hazard Symbol:



Classification: F+ Extremely Flammable

Risk Phrases: R12: Extremely flammable

Hazardous components which must be listed on the label

Contains Butane and Propane

Full text of R-phrases referred to under sections 2 & 3

R11: Highly Flammable
R12: Extremely Flammable
R36: Irritating to eyes
R67: Vapours may cause drowsiness and dizziness

Full text of H-Statements referred to under sections 2 & 3

H220 Extremely flammable gas
H222 Extremely flammable aerosol
H225 Highly flammable liquid and vapour
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness

Training Advice

Users should be trained in good industrial hygiene practise.

Department issuing data specification sheet: Health and Safety Department

Contact

Fortron International, Tel 01543 679 900

This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH).

Do not mix with other chemicals.

Further Information

The information supplied above is based upon the present state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification or quality of the product. The user must satisfy themselves that the product is entirely suitable for his purpose.