

# Safety Data Sheet - Freshzone

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Product name	Fortron Air Conditioning Treatment
Product code	FACT

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

### 1.3 Details of the supplier of the safety data sheet

Manufacturer	Fortron International
Address	Unit 4 Cannel Road, Burntwood Business Park, Burntwood, Staffordshire, WS7 3FU
Country	United Kingdom
Telephone	01543 679 900
Website	<a href="http://fortron.co.uk">fortron.co.uk</a>



### 1.4 Emergency telephone number

01543 679 900 (office hours only)

## 2. HAZARDS IDENTIFICATION IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

	flame
Aerosol 1	H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
	
Eye Irrit. 2	H319 Causes serious eye irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
Asp. Tox. 1	H304 May be fatal if swallowed and enters airways.

### 2.2 Label elements

The product is classified and labelled according to the CLP regulation.

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Hazard pictogram(s)		
	GHS02	GHS07

Signal word	Danger
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### Hazard statement(s)

H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H319	Causes serious eye irritation.

### Precautionary statement(s)

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves / eye protection.
P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P501	Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

### Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT:	Not applicable.
vPvB:	Not applicable.

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### SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS SUBSTANCES

#### 3.2 Mixtures

Description	Active substance with propellant
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#### Dangerous components:

CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60	Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit	2.5-<10%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane (containing < 0.1% butadiene (203-450-8), Note K) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	2.5-<10%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	1-<2.5%
CAS: 7173-51-5 EINECS: 230-525-2 Reg.nr.: 01-2119945987-15	didecyldimethylammonium chloride Acute Tox. 3, H301; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411	≥0.25- <1%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8), Note K) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	0.1-<1%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	0.1-<1%

#### Additional information:

Aerosols and containers fitted with a solid atomizer containing substances or mixtures classified as hazardous by aspiration shall not be labelled for that hazard.

The text of the hazard statements mentioned here can be found in chapter 16.

### SECTION 4 FIRST AID MEASURES

#### 4.1 Description of first aid measures

After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Generally the product does not irritate the skin.
After eye contact:	Rinse opened eye for several minutes under running water.
After swallowing:	Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

## SECTION 5 FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing agents:

Water haze  
Fire-extinguishing powder  
Carbon dioxide  
Alcohol resistant foam

For safety reasons unsuitable extinguishing agents:

Water with full jet

### 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

### 5.3 Advice for firefighters

Protective equipment:

Mount respiratory protective device.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

### 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

### 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents

### 6.4 Reference to other sections

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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### Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage:

### Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

### Information about storage in one common storage facility:

Observe official regulations on storing packagings with pressurised containers.

### Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

### 7.3 Specific end use(s)

No further relevant information available.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Additional information about design of technical facilities:

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

#### 34590-94-8 Dipropylene glycol monomethyl ether

WEL	Long-term value: 308 mg/m <sup>3</sup> , 50 ppm Sk
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#### 106-97-8 butane (containing < 0.1% butadiene (203-450-8), Note K)

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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#### 74-98-6 propane

OEL	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm Additioneel ingevuld tbv klant voor Hfdst3 SDS
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<b>75-28-5 isobutane (containing &lt; 0,1 % butadiene (203-450-8), Note K)</b>	
OEL	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm Additioneel ingevuld obv klant voor Hfdst 3 SDS
<b>67-63-0 propan-2-ol</b>	
WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
Additional information:	
The lists valid during the making were used as basis.	

### 8.2 Exposure controls

#### Personal protective equipment:

#### General protective and hygienic measures:

Wash hands before breaks and at the end of work.  
General ventilation

Respiratory protection:	Use suitable respiratory protective device in case of insufficient ventilation. Filter ABEK/P2	
Protection of hands:	Solvent resistant gloves. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.	
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.  Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.5 mm	
Penetration time of glove material	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.	
Eye protection:		Safety glasses Tightly sealed goggles
Body protection:	Use protective suit. (EN-13034/6) Full skin covering antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688; EN13034-6).	
Limitation and supervision of exposure into the environment	Use a suitable container to prevent environmental contamination.	

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### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

##### General Information

Form	Aerosol
Colour	According to product specification
Odour	Characteristic
Odour threshold	Not determined
pH-value at 20 °C	11
Melting point/freezing point	Undetermined
Initial boiling point and boiling range	-44.5 °C
Flash point	-97 °C
Flammability (solid, gas)	Not applicable
Auto-ignition temperature	Product is not selfigniting.
Explosive properties	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
Explosion limits - Lower	1.1 Vol %
Explosion limits - Upper	14 Vol %
Vapour pressure at 20 °C	5000 hPa
Density at 20 °C	0.961 g/cm <sup>3</sup>
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not applicable
Solubility in/Miscibility with water	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water	Not determined.
Dynamic at 20 °C	Not determined.
Kinematic	Not determined.
Organic solvents	9.7 %
Water	88.7 %

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### SECTION 10 STABILITY AND REACTIVITY

#### 10.1 Reactivity

No further relevant information available.

#### 10.2 Chemical stability

Thermal decomposition /  
conditions to be avoided

No decomposition if used according to specifications.

#### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

#### 10.4 Conditions to avoid

No further relevant information available.

#### 10.5 Incompatible materials

No further relevant information available.

#### 10.6 Hazardous decomposition products

No dangerous decomposition products known.

### SECTION 11 TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

#### Primary irritant effect:

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

#### Additional toxicological information:

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.



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### SECTION 12 ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Aquatic toxicity:

No further relevant information available.

#### 12.2 Persistence and degradability

Not easily biodegradable

#### 12.3 Bioaccumulative potential

No further relevant information available.

#### 12.4 Mobility in soil

No further relevant information available.

#### Additional ecological information:

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

#### 12.5 Results of PBT and vPvB assessment

PBT

Not applicable.

vPvB

Not applicable.

#### 12.6 Other adverse effects

No further relevant information available.

### SECTION 13 DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### Uncleaned packaging:

Recommendation

Disposal must be made according to official regulations.

### SECTION 14 TRANSPORT INFORMATION

#### 14.1 UN-Number

ADR, ADN, IMDG, IATA

UN1950

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### 14.2 UN proper shipping name

ADR, ADN	UN1950 AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, flammable

### 14.3 Transport hazard class(es)

ADR		
Class	2 5F Gases.	
Label		2.1

#### ADN

ADN/R Class:	2 5F
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IMDG, IATA		
Class		2.1
Label		2.1

### 14.4 Packing group

ADR, IMDG, IATA	Void
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### 14.5 Environmental hazards

Marine pollutant: No
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### 14.6 Special precautions for user

Warning	Gases
Hazard identification number (Kemler code)	-
EMS Number	F-D,S-U
Stowage Code	SW1 Protected from sources of heat. SW2 Clear of living quarters.

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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 2.
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### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

#### Transport/Additional information:

ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation"	UN 1950 AEROSOLS, 2.1

## SECTION 15 REGULATORY INFORMATION

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

#### Directive 2012/18/EU

Named dangerous substances - ANNEX I	None of the ingredients is listed.
Seveso category	P3a FLAMMABLE AEROSOLS
Qualifying quantity (tonnes) for the application of lower-tier requirements	150 t
Qualifying quantity (tonnes) for the application of upper-tier requirements	500 t

#### National regulations:

Breakdown regulations:

Class	Share in %
Wasser	75-<100
NK	2.5-<10

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VOC-CH	9.56 %
VOC-EU	92.8 g/l
Danish MAL Code	5-6

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16 FURTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

H220 Extremely flammable gas.  
H225 Highly flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

### Classification according to Regulation (EC) No 1272/2008

Physical and chemical properties: The classification is based on the results of the mixtures tested. Health hazards, Environmental hazards: The method of classification of mixtures based on the constituents of the mixture (sum formula).

**Department issuing SDS:** Research & Development

**Contact:** ing. J. Sleumer

### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Gas 1A: Flammable gases – Category 1A  
Aerosol 1: Aerosols – Category 1  
Press. Gas (Comp.): Gases under pressure – Compressed gas  
Flam. Liq. 2: Flammable liquids – Category 2  
Acute Tox. 3: Acute toxicity – Category 3  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
• \* Data compared to the previous version altered. \*