

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

1.1. Product identifier

Product form : Mixture
 Product name : Air Conditioner Treatment Lemon (Aerosol) 07408
 Product code : J07411
 Product group : Trade product

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Cleaning of the air conditioning system including the evaporator and the interior of motorvehicles
 Function or use category : Aerosol propellants

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufactured in EU for Forté by ITW Additives International North EU
 Industriepark-West 46
 9100 Sint-Niklaas - België
 T +32 3 766 60 20 - F +32 3 778 16 56
msds.forte@forte-itw.eu

1.4. Emergency telephone number

Emergency number : BIG: +32(0)14/58.45.45

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol 1 H222;H229
 Aquatic Acute 1 H400

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS09

Signal word (CLP) : Danger

Hazardous ingredients : Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Hazard statements (CLP) : H222 - Extremely flammable aerosol
 H229 - Pressurised container: May burst if heated
 H400 - Very toxic to aquatic life

Precautionary statements (CLP) : 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
 P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
 P273 - Avoid release to the environment

Allergenic fragrances > 0,01%:

CITRAL
 D-LIMONENE
 LINALOOL

Detergent Regulation : Labelling of contents:(Regulation (EC) No. 648/2004 of 31 March 2004 on detergents):

Component %

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disinfectants

perfumes

CITRAL

D-LIMONENE

LINALOOL

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% w	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Butane n-	(CAS No) 106-97-8 (EC no) 203-448-7 (EC index no) 601-004-00-0 (REACH-no) 01-2119474691-32	25 - 50	Flam. Gas 1, H220
Ethanol	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5 (REACH-no) 01-2119457610-43	25 - 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319
Propane	(CAS No) 74-98-6 (EC no) 200-827-9 (EC index no) 601-003-00-5 (REACH-no) 01-2119486944-21	10 - 25	Flam. Gas 1, H220
Propan-2-ol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0 (REACH-no) 01-2119457558-25	1 - 2,5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	(CAS No) 68424-85-1 (EC no) 270-325-2 (REACH-no) 01-2119983287-23	0,3	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Name	Product identifier	Specific concentration limits	
Ethanol	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5 (REACH-no) 01-2119457610-43	(C >= 50) Eye Irrit. 2, H319	

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Victim conscious with laboured breathing: half-seated. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Prevent cooling by covering the victim (no warming up). Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact

: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. As it is a spray can packaging it is most unlikely that large quantities will be swallowed.

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

No additional information available

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

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Water spray. ABC-powder. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol. Heating may cause a fire or explosion. Gas/vapour spreads at floor level: ignition hazard.

Explosion hazard : Heating may cause an explosion. May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Firefighting instructions : Cool closed containers exposed to fire with water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable gloves and eye/face protection. protective clothing. Large spills/in enclosed spaces: compressed air apparatus.

Emergency procedures : Mark the danger area. Keep upwind. Stop engines and no smoking. Seal off low-lying areas. No naked flames, sparks, and do not smoke. Close doors and windows of adjacent premises. Large spills/in confined spaces: consider evacuation. Use spark-/explosionproof appliances and lighting system. Wash contaminated clothes.

6.1.2. For emergency responders

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Try to reduce evaporation.

Methods for cleaning up : Take up liquid spill into inert absorbent material. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information : Ventilate area.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Meet the legal requirements. Do not handle until all safety precautions have been read and understood. Provide good ventilation in process area to prevent formation of vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Presents no particular risk when handled in accordance with good occupational hygiene practice.

Hygiene measures : Use good personal hygiene practices. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Storage temperature : ≤ 45 °C

Heat and ignition sources : Keep away from sources of ignition - No smoking.

Prohibitions on mixed storage : Keep away from strong acids and strong oxidizers.

Storage area : Meet the legal requirements. Fireproof storeroom. Store in a dry place. Protect from heat and direct sunlight. Ventilation along the floor.

Special rules on packaging : Meet the legal requirements. correctly labelled.

Packaging materials : Pressurised small gas containers (aerosol cans).

7.3. Specific end use(s)

Use biocides safely. Always read the label and product information before use. See product bulletin for detailed information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Butane n- (106-97-8)		
Belgium	Limit value (ppm)	1000 ppm
Ethanol (64-17-5)		
Belgium	Limit value (mg/m ³)	1907 mg/m ³
Belgium	Limit value (ppm)	1000 ppm
Propane (74-98-6)		
Belgium	Limit value (ppm)	1000 ppm
Propan-2-ol (67-63-0)		
Belgium	Limit value (mg/m ³)	500 mg/m ³
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m ³)	1000 mg/m ³
Belgium	Short time value (ppm)	400 ppm
France	VLE (mg/m ³)	980 mg/m ³
France	VLE (ppm)	400 ppm
Ethanol (64-17-5)		
<i>DNEL/DMEL (Workers)</i>		
Acute - local effects, inhalation		1900 mg/m ³
Long-term - systemic effects, dermal		343 mg/kg bodyweight/day
Long-term - systemic effects, inhalation		950 mg/m ³
<i>DNEL/DMEL (General population)</i>		
Acute - local effects, inhalation		950 mg/m ³
Long-term - systemic effects, oral		87 mg/kg bodyweight/day
Long-term - systemic effects, inhalation		114 mg/m ³
Long-term - systemic effects, dermal		206 mg/kg bodyweight/day
<i>PNEC (Water)</i>		
PNEC aqua (freshwater)		0,96 mg/l
PNEC aqua (marine water)		0,79 mg/l
PNEC aqua (intermittent, freshwater)		2,75 mg/l
<i>PNEC (Sediment)</i>		
PNEC sediment (freshwater)		3,6 mg/kg dwt
<i>PNEC (Soil)</i>		
PNEC soil		0,63 mg/kg dwt
<i>PNEC (STP)</i>		
PNEC sewage treatment plant		580 mg/l
Propan-2-ol (67-63-0)		
<i>DNEL/DMEL (Workers)</i>		
Long-term - systemic effects, dermal		888 mg/kg bodyweight/day
Long-term - systemic effects, inhalation		500 mg/m ³
<i>DNEL/DMEL (General population)</i>		
Long-term - systemic effects, oral		26 mg/kg bodyweight/day
Long-term - systemic effects, inhalation		89 mg/m ³
Long-term - systemic effects, dermal		319 mg/kg bodyweight/day
<i>PNEC (Water)</i>		
PNEC aqua (freshwater)		140,9 mg/l
PNEC aqua (marine water)		140,9 mg/l
PNEC aqua (intermittent, freshwater)		140,9 mg/l
PNEC aqua (intermittent, marine water)		140,9 mg/l
<i>PNEC (Sediment)</i>		
PNEC sediment (freshwater)		552 mg/kg dwt
PNEC sediment (marine water)		552 mg/kg dwt
<i>PNEC (Soil)</i>		
PNEC soil		28 mg/kg dwt
<i>PNEC (Oral)</i>		
PNEC oral (secondary poisoning)		160 mg/kg food
<i>PNEC (STP)</i>		
PNEC sewage treatment plant		2251 mg/l

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8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide good ventilation in process area to prevent formation of vapour. Does not require any specific or particular technical measures.

Personal protective equipment

: Protective clothing. Gloves. Protective goggles. Insufficient ventilation: wear respiratory protection.



Hand protection

: PVC (Polyvinyl chloride). Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer.

Other information

: Breakthrough time : >30'. Thickness of the glove material >0.1 mm.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: Colourless.
Odour	: Characteristic odour.
Odour threshold	: No data available
pH	:
Relative evaporation rate (butylacetate=1)	: No data available
refraction index	: 1,3646
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 78 - 100 °C
Flash point	: 13 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density @20°C	: 790 kg/m ³ @ 20 °C
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic @40°C	: < 1 mm ² /s
Viscosity, dynamic @40°C	: No data available
Viscosity	:
Viscosity Index	:
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

Additional information

: Physical and chemical properties of the active product without gas.. The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Extremely flammable aerosol. Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

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10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep away from strong acids and strong oxidizers.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours. Carbon dioxide. Carbon monoxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg @95%
LC50 inhalation rat (mg/l)	117 - 125 mg/l/4h Sprague-Dawley
ATE CLP (oral)	10470,000 mg/kg bodyweight
ATE CLP (vapours)	117,000 mg/l/4h
ATE CLP (dust,mist)	117,000 mg/l/4h

Propan-2-ol (67-63-0)	
LD50 oral rat	5840 mg/kg bodyweight Sherman
LD50 dermal rabbit	13900 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 25 mg/l
ATE CLP (oral)	5840,000 mg/kg bodyweight
ATE CLP (dermal)	13900,000 mg/kg bodyweight

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
LD50 oral rat	344 mg/kg
ATE CLP (oral)	344,000 mg/kg bodyweight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : May have a narcotic effect at high concentrations.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No data available. This product contains hazardous components for the aquatic environment.

Ecology - water : Very toxic to aquatic life.

Ethanol (64-17-5)	
LC50 fish 1	96h 14200 mg/l <i>Pimephales promelas</i>
LC50 other aquatic organisms 1	48h 5012 mg/l <i>Ceriodaphnia dubia</i>

Propan-2-ol (67-63-0)	
LC50 fish 1	96h 9640 mg/l <i>pimephales promelas</i>
EC50 <i>Daphnia</i> 1	24h 9714 mg/l <i>daphnia magna</i>
LOEC (chronic)	1000 mg/l @8d algae

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
LC50 fish 1	96h 0,28 mg/l <i>Pimephales promelas</i>
EC50 <i>Daphnia</i> 1	48h 0,016 mg/l <i>Daphnia magna</i>
ErC50 (algae)	72h 0,049 mg/l <i>Pseudokirchneriella subcapitata</i>
NOEC (chronic)	21d 0,0042 mg/l <i>Daphnia Magna</i>
NOEC chronic fish	34d 0,032 mg/l <i>Pimephales promelas</i>

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12.2. Persistence and degradability

Air Conditioner Treatment Lemon (Aerosol) 07408	
Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Ethanol (64-17-5)	
Persistence and degradability	biodegradable. Readily biodegradable in water.
Propan-2-ol (67-63-0)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Air Conditioner Treatment Lemon (Aerosol) 07408	
Bioaccumulative potential	Not established.
Ethanol (64-17-5)	
Log Kow	-0,35
Bioaccumulative potential	Slightly bioaccumulative.
Propan-2-ol (67-63-0)	
Log Pow	0,05
Log Kow	< 4
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Propan-2-ol (67-63-0)	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Pressurized container: Do not pierce or burn, even after use. Remove to an authorized waste treatment plant.

European List of Waste (LoW) code : 20 01 19* - pesticides
15 01 11* - metallic packaging containing a dangerous solid porous matrix (e.g. asbestos), including empty pressure containers

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS
Transport document description (ADR) : UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

Class (ADR) : 2
Subsidiary risk (IMDG) : 2.1
Subsidiary risk (IATA) : 2.1
Danger labels (ADR) : 2.1



14.4. Packing group

Not applicable

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14.5. Environmental hazards

Dangerous for the environment



Other information

: No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : 5F
Special provisions (ADR) : 190, 327, 344, 625
Transport category (ADR) : 2
Tunnel restriction code (ADR) : D
Limited quantities (ADR) : II

14.6.2. Transport by sea

EmS-No. (1) : F-D, S-U

14.6.3. Air transport

Instruction "cargo" (ICAO) : 203
Instruction "passenger" (ICAO) : 203/Y203

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Allergenic fragrances > 0,01%:

CITRAL	0,02%
D-LIMONENE	0,09%
LINALOOL	0,04%

15.1.2. National regulations

Water hazard class (WGK) : 2 - hazard to waters

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapour
H229	Pressurised container: May burst if heated
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation

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<i>H336</i>	<i>May cause drowsiness or dizziness</i>
<i>H400</i>	<i>Very toxic to aquatic life</i>
<i>H410</i>	<i>Very toxic to aquatic life with long lasting effects</i>

SDS Forte NWE

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product