SAFETY DATA SHEET
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name : Valeo ClimPur
Product code : 698984-698985-698991.

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

1.3. Details of the supplier of the safety data sheet
Registered company name : VALEO SERVICE SAS.
Address : 70, rue Pleyel.93285.SAINT DENIS Cedex.France.
Telephone : +33 (0)1 49 45 32 32.     Fax : +33 (0)1 49 45 32 03.
Email : vsa.mdsflt.mailbox@valeo.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Other emergency numbers

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
In compliance with EC regulation No. 1272/2008 and its amendments.
Aerosol, Category 3 (Aerosol 3, H229).
Eye irritation, Category 2 (Eye Irrit. 2, H319).
May produce an allergic reaction (EUH208).
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements
Biocidal mixture (see section 15).
Mixture for aerosol application.
In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :

GHS07
Signal Word : 
WARNING
Additional labeling : EUH208 Contains CITRONELLA OIL, REDUCED. May produce an allergic reaction.
20% by mass of the contents are flammable.

Hazard statements :
H229 Pressurised container: May burst if heated.
H319 Causes serious eye irritation.

Precautionary statements - General :
P102 Keep out of reach of children.

Precautionary statements - Prevention :
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P260 Do not breathe spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements - Response:

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.

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

2.3. Other hazards

The mixture does not contain substances classified as ‘Substances of Very High Concern’ (SVHC) >= 0.1% published by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition:

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(Full text of H-phrases; see section 16)

Information on ingredients:

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation:

In the event of an allergic reaction, seek medical attention.

In the event of splashes or contact with eyes:

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.
If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

In the event of an allergic reaction, seek medical attention.

In the event of swallowing:

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.
Keep the person exposed at rest. Do not force vomiting.
Seek medical attention, showing the label.
If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

No data available.
SECTION 5 : FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable methods of extinction
- Sprayed water or water mist
- Foam
- Multipurpose ABC powder
- BC powder
- Carbon dioxide (CO2)

Unsuitable methods of extinction
- Water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.
- Do not breathe in smoke.
- In the event of a fire, the following may be formed:
  - Carbon monoxide (CO)
  - Carbon dioxide (CO2)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker
- Avoid any contact with the skin and eyes.

For first aid worker
- First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

- Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
- Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

- Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

- No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

- Always wash hands after handling.
- Remove and wash contaminated clothing before re-using.
- Ensure that there is adequate ventilation, especially in confined areas.
- To be translated (XML)

Fire prevention:
- Handle in well-ventilated areas.
- Do not pierce or burn, even after use.
- Prevent access by unauthorised personnel.

Recommended equipment and procedures:
- For personal protection, see section 8.
- Observe precautions stated on label and also industrial safety regulations.
- Do not breathe in aerosols.
Avoid eye contact with this mixture.

Packages which have been opened must be reclosed carefully and stored in an upright position.

**Prohibited equipment and procedures:**

No smoking, eating or drinking in areas where the mixture is used.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

No data available.

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**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits:**

- **ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):**

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<th>Criteria</th>
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- **Germany - AGW (BAuA - TRGS 900, 08/08/2019):**

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- **Australia (NOHSC: 3008, 1995):**

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- **Belgium (Arrêté du 09/03/2014, 2014):**

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- **France (INRS - ED984 / 2019-1487):**

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- **Switzerland (SUVAPRO 2017):**

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- **UK / WEL (Workplace exposure limits, EH40/2005, 2011):**

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- **Austria (BGBl. II, 254/2018, 382/2020):**

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<tbody>
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<td>64-17-5</td>
<td>1000 ppm</td>
<td>1900 mg/m³</td>
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</table>

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

**ETHANOL (CAS: 64-17-5)**

**Final use:**

Workers.

**Exposure method:**

Dermal contact.

**Potential health effects:**

Long term systemic effects.

**DNEL:**

343 mg/kg body weight/day

**Exposure method:**

Inhalation.
Potential health effects: Short term local effects.
DNEL : 1900 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 950 mg of substance/m3

Final use: Man exposed via the environment.
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 87 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 206 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 950 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 114 mg of substance/m3

Predicted no effect concentration (PNEC):

ETHANOL (CAS: 64-17-5)

Environmental compartment: Soil.
PNEC : 0.63 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.96 mg/l

Environmental compartment: Sea water.
PNEC : 0.79 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 2.75 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 3.6 mg/kg

Environmental compartment: Marine sediment.
PNEC : 2.9 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 580 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):

Use personal protective equipment that is clean and has been properly maintained.
Store personal protective equipment in a clean place, away from the work area.
Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.
- **Eye / face protection**
  Avoid contact with eyes.
  Use eye protectors designed to protect against liquid splashes.
  Before handling, wear safety goggles with protective sides according to standard EN166.
  In the event of high danger, protect the face with a face shield.
  Prescription glasses are not considered as protection.
  Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.
  Provide eyewash stations in facilities where the product is handled constantly.

- **Hand protection**
  Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.
  Gloves must be selected according to the application and duration of use at the workstation.
  Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.
  Type of gloves recommended:
  - Natural latex
  - Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
  - PVC (polyvinyl chloride)
  - Butyl Rubber (Isobutylene-isoprene copolymer)
  Recommended properties:
  - Impervious gloves in accordance with standard EN ISO 374-2

- **Body protection**
  Work clothing worn by personnel shall be laundered regularly.
  After contact with the product, all parts of the body that have been soiled must be washed.

### SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

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

**General information:**
- **Physical state:** Fluid liquid. Spray.

**Important health, safety and environmental information**
- **pH:** Not stated. Neutral.
- **Flash point interval:** Not relevant.
- **Vapour pressure (50°C):** Below 110 kPa (1.10 bar).
- **Density:** < 1
- **Water solubility:** Dilutable.
- **Viscosity:** \( v < 7 \text{ mm}^2/\text{s} (40°C) \)
- **Chemical combustion heat:** < 20 kJ/g.
- **Inflammation time:** > 300 s/m3.
- **pH range:** 7.0 - 8.0

#### 9.2. Other information
No data available.

### SECTION 10 : STABILITY AND REACTIVITY

#### 10.1. Reactivity
No data available.

#### 10.2. Chemical stability
This mixture is stable under the recommended handling and storage conditions in section 7.

#### 10.3. Possibility of hazardous reactions
When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

#### 10.4. Conditions to avoid
Avoid:
- frost
10.5. Incompatible materials
Keep away from:
- oxidising agents

10.6. Hazardous decomposition products
The thermal decomposition may release/form:
- carbon monoxide (CO)
- carbon dioxide (CO2)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days. Splashes in the eyes may cause irritation and reversible damage.

11.1.1. Substances
Acute toxicity:

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)
Oral route: LD50 = 238 mg/kg
Species: Rat
Dermal route: LD50 = 3342 mg/kg
Species: Rabbit

CITRONELLA OIL, REDUCED (CAS: 68916-56-3)
Oral route: LD50 = 4647 mg/kg

ETHANOL (CAS: 64-17-5)
Oral route: LD50 = 10470 mg/kg
Species: Rat
OECD Guideline 401 (Acute Oral Toxicity)
Dermal route: 2,000 < LD50 <= 5000 mg/kg
Species: Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)
Inhalation route (Vapours): LC50 = 51 mg/l
Species: Rat
OECD Guideline 403 (Acute Inhalation Toxicity)
Duration of exposure: 4 h

Serious damage to eyes/eye irritation:
ETHANOL (CAS: 64-17-5)
Causes serious eye irritation.
Corneal haze:
1 <= Average score < 2 and effects totally reversible within 21 days of observation
Conjunctival redness:
2 <= Average score < 2.5 and effects totally reversible within 21 days of observation

11.1.2. Mixture
Respiratory or skin sensitisation:
Contains at least one sensitising substance. May cause an allergic reaction.

Monograph(s) from the IARC (International Agency for Research on Cancer):
CAS 67-63-0: IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.
CAS 64-17-5: IARC Group 1: The agent is carcinogenic to humans.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances
DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)
Crustacean toxicity: EC50 >= 0.011 mg/l
Duration of exposure : 48 h

NOEC >= 0.011 mg/l

ETHANOL (CAS: 64-17-5)
Fish toxicity :
LC50 = 13000 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h

NOEC = 245 mg/l

Crustacean toxicity :
EC50 = 858 mg/l
Species : Artemia salina
Duration of exposure : 24 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 9.6 mg/l
Species : Ceriodaphnia dubia

Algae toxicity :
ECr50 = 11.5 mg/l
Species : Chlorella vulgaris
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures
No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances
DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)
Biodegradability : Rapidly degradable.

ETHANOL (CAS: 64-17-5)
Biodegradability : Rapidly degradable.

12.3. Bioaccumulative potential

12.3.1. Substances
ETHANOL (CAS: 64-17-5)
Octanol/water partition coefficient : log Koe = -0.3

Bioaccumulation : BCF = 0.66

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
No data available.

12.6. Other adverse effects
No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :
WGK 1 : Slightly hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods
Do not pour into drains or waterways.

Waste :
Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.
Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging:**
Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.

### SECTION 14 : TRANSPORT INFORMATION


#### 14.1. UN number
1950

#### 14.2. UN proper shipping name
UN1950=AEROSOLS, asphyxiant

#### 14.3. Transport hazard class(es)
- Classification:

  2.2

#### 14.4. Packing group
-

#### 14.5. Environmental hazards
-

#### 14.6. Special precautions for user

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<td>63 190 277 327 344 381 959</td>
<td>E0</td>
<td>- SW1 SW22</td>
<td>SG69</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>IATA</td>
<td>Class</td>
<td>2°Label</td>
<td>Pack gr.</td>
<td>Passager</td>
<td>Passager</td>
<td>Cargo</td>
<td>Cargo</td>
<td>note</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.2</td>
<td>-</td>
<td>-</td>
<td>Y203</td>
<td>75 kg</td>
<td>203</td>
<td>150 kg</td>
<td>A98 A145 A167 A802</td>
<td>E0</td>
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</tbody>
</table>

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.
For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No data available.

### SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:
The following regulations have been used:
  - Directive 75/324/CEE modified by directive 2013/10/UE
  - EU Regulation No. 1272/2008 amended by EU Regulation No. 2020/217 (ATP 14)

- Container information:
  No data available.

- Particular provisions:
  No data available.

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>%</th>
<th>Product-type</th>
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<tr>
<td>DIDECYLDIMETHYLAMMONIUM CHLORIDE</td>
<td>7173-51-5</td>
<td>0.99 g/kg</td>
<td>02</td>
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</table>

Product-type 2 : Disinfectants and algacides not intended for direct application to humans or animals.

- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws):
  WGK 1 : Slightly hazardous for water.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704):
  NFPA 704, Labelling: Health=2 Inflammability=1 Instability/Reactivity=1 Specific Risk=none

- Swiss ordinance on the incentive tax on volatile organic compounds:
  67-63-0 propane-2-ol (alcool isopropylique)
  64-17-5 éthanol, seulement s’il s’agit d’alcools impropres à la consommation (art. 31 de la loi fédérale sur l’alcool)

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user’s working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3:

H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Abbreviations:

DNEL : Derived No-Effect Level
PNEC : Predicted No-Effect Concentration
ADR : European agreement concerning the international carriage of dangerous goods by Road.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefährdungsklasse (Water Hazard Class).
GHS07 : Exclamation mark
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.