

1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Commercial name:** AIR CONDITIONER CLEANING SPRAY**1.2. Application of the substance / the preparation:****Area of application:** Maintenance**1.3. Details of the supplier of the Safety Data Sheet:****Manufacture/distributor:** VREC-CO Kft.**Address:** H-6763 Szatymaz, Kossuth utca 12.**Phone:** +3662283481**Fax:** +3662583550**E-mail:** info@vrec-co.hu**1.4. Emergency phone number****Address:** Health, Toxicology Information Service (ETTSZ)
1096 Budapest, Nagyvárad tér 2.**Phone:** (36) 80/201-199 (free of charge, 24 hours)
(36-1-) 476-6464**2. Hazards identification****2.1. Classification of the substance or mixture:****Product designation:**

Mixture

Classification according to 1272/2008/EC: Aerosol 1, H222, H229**2.2. Label elements:***According to 1272/2008/EC:***GHS/CLP:****Danger**

GHS02

H statements:H 222 Extremely flammable aerosol
H229 Pressurised container: May burst if heated.**P statements related to precautions:**P 102 Keep out of reach of children

P 210 – Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P211 Take any precaution to avoid mixing with combustibles.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340+P312 IN CASE OF INHALE: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P 410 + P 412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P 251 Pressurized container: Do not pierce or burn, even after use
P 261 Avoid breathing dust/fume/gas/mist/vapours/spray
P 271 Use only outdoors or in a well-ventilated area
P501 Dispose of contents/container as hazardous waste.**Hazardous component:**

Propane/butane, Denaturated alcohol

The product is in a pressurized container. Do not open it, hit it, pierce it, expose it to temperatures in excess of 50 °C, sunlight, radiating heat, do not throw it into fire even when empty! Do not spray it into open flame or on burning material. Do not refill the container!

2.3. Other hazards:

PBT and vPvB assessment results: Not applicable

3. Composition/information on ingredients**3.1. Substances**

Not applicable

3.2. Mixtures**Hazardous components:**

Denatured alcohol

CAS-number: 64-17-5

EINECS-number: 200-578-6

Index-number: 603-002-00-5

1272/2008/EC



Flam. Liq. 2 – H 225

Propellant gas:

>85% Propane/butane

(1,3-butadiene content < 0,1%)

CAS-number: 74-98-6/106-97-8/75-28-

5/

106-99-0

EINECS-number: 200-827-9/203-448-7/

200-857-2/203-450-8



Flam. Gas 1 – H 220



Press. Gas

See the R and H statements related to hazardous components in section 16.

4. FIRST AID MEASURES**4.1. Description of first aid measures:****After inhalation:
(SPRAY)**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. In the case of respiratory irritation (coughing), difficulty breathing, call a physician to the scene immediately.

**After skin contact:
(SPRAY)**

Clothing contaminated, soaked with the product must be removed immediately. The affected skin surface must be washed with water and soap. In case of symptoms seek the attention of a physician.

**After eye contact:
(SPRAY)**

Thoroughly rinse the eye with plenty of running water, for at least 15 minutes, (while keeping the eyelids pulled apart). Contact lenses must be removed, if any, and if this can be done easily. In case of irritation seek the attention of an ophthalmologist.

**After swallowing:
(SPRAY)**

The product is sold in an aerosol container, thus swallowing it is unlikely. In case of accidental placement in the mouth, do not induce vomiting, seek medical attention.

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

In high concentration it has a suffocating effect. The lack of oxygen may be fatal. (Propellant gas data)

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

Show the safety data sheet or the label to the physician, if that is possible. There is no specific antidote.

5. Firefighting measures**5.1. Extinguishing media****Suitable:**

Dry chemical powder, carbon dioxide (CO₂).

Foam, water mist, (only for use by emergency personnel).

Unsuitable:

Strong water jet (use only for the cooling of the container).

5.2. Special hazards of the substance or mixture

The area must be evacuated. The fire may only be extinguished from a safe distance or protected place. Avoid the inhalation of hazardous fumes and toxic decomposition products (approach from upwind). In the case of extinguishing fires of flammable gases, the best method is to eliminate the gas leak before the commencement of fire extinguishing. **Because of the aerosol packaging, the leaking of a large amount of the product is unlikely.** The gas may form an explosive mixture with air. The heat of the fire may lead to a rapid increase of pressure within the container, and the container may explode. People and materials not yet affected by the fire must be secured.

Hazardous combustion products:

In case of fire toxic gases may be released (CO, CO₂).

5.3. Advice for firefighters:**Protective gear:**

Completely fire-resistant protective gear.

In case of fire a breathing apparatus independent of the environmental air must be used.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures:**

For non-emergency responders and emergency responders:

Ignition sources must be kept at a distance. Unauthorized persons must be kept at a distance. Sufficient ventilation must be ensured. Avoid contact with the skin or eyes. Do not inhale the vapour/spray of the product. Completely fire-resistant protective gear and breathing apparatus independent of the environmental air must be used.

6.2. Environmental precautions:

Do not drain the product into the communal sewage system or any natural body of water.

Because of the small aerosol packaging, the spilling of a large amount of the product is unlikely. If the spilled substance (**propellant gas**) flows into the communal sewage system, there may be a hazard of explosion. All deeper located and more distant ignition sources must be eliminated.

6.3. Methods and material for containment and cleaning up:

Stop the leak, if that is safely feasible. Reduce the concentration of the gas by means of sprayed water. Close off the location until the gas dissipates.

Dispose of while conforming to regulations. Use only spark-proof equipment.

6.4. Reference to other sections:

See information related to safe handling in section 7

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

7. Handling and storage**7.1. Precautions for safe handling:****Handling:**

Use only in a well ventilated place. Keep away from heat and ignition sources. Conform to regulations related to pressurized containers. Avoid the inhalation of the product's spray, its contact with the skin or eyes, swallowing it.

Use a spark-proof ventilation system, explosion-proof equipment and an electric

Fire and explosion protection:

power system with internal safety measures.

The product is in a pressurized container. Do not open it, hit it, pierce it, expose it to temperatures in excess of 50 °C, sunlight, radiating heat, do not throw it into fire even when empty! Do not spray it into open flame or on burning material. Do not refill the container!

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

Sufficient ventilation must be ensured.

Prevent electrostatic charging.

Store in a dry, cool place, at temperatures below 35 °C.

Keep away from heat and ignition sources.

Keep out of the reach of children and store separately from food products!

Incompatible substances:

Strong oxidants (e.g.: perchlorates).

7.3. Specific end use(s):

Not available

8. Exposure controls/personal protection**8.1. Control parameters:**

Ingredients with limit values that require monitoring at the workplace:

Ethyl-alcohol: PEL-value: 1,900 mg/m³, TLV-value: 7,600 mg/m³

Butane (CAS: 106-97-8): PEL-value: 2,350 mg/m³; TLV-value: 9,400 mg/m³

We specified the data in accordance with the effective regulation. [Ministry of Health - Ministry of Social and Family Affairs joint Decree No 25/2000. (IX. 30.) on chemical safety of workplaces.]

DNEL-value (Derived no effect level - Derived no effect level of human exposure): Not available.

PNEC-value (Predicted no effect concentration – Predicted no effect concentration on the specific ecosystem): Not available.

8.2. Exposure control**Technical measures:**

Only use the product in a well ventilated place.

Personal protective equipment:**Respiratory protection:**

Sufficient ventilation (general ventilation, local exhaust) is required. If in the air space of the workplace an exposure in excess of the allowed limit value may occur, the usage of breathing protection is justified.

Hand protection:

Dissolvent agent proof protective gloves.

Eye protection:

If the risk of eye contact exists, wearing protective glasses/face protection is necessary.

Skin protection:

If the risk of direct contact or spattering exists, wearing protective clothing is necessary.

Other protection and hygiene measures:

Keep away from food products, beverages and fodder.

Handwashing is mandatory after work-shifts and before brakes.

Environmental exposure controls:

Not available

9. Physical and chemical properties**9.1. Information related to health, safety and the environment:**

Form: Aerosol

Colour: Colourless

Odour: Characteristic

The data are related to denatured alcohol:



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Density:	0.79 – 0.82 g/cm ³ (at 20 °C)
Solubility in water:	Well soluble in water
Flash point:	12-26 °C
Boiling point:	78-80 °C
Ignition temperature:	425 °C
Explosion limits (flammable mixture):	Low: 3.5 tf% - high 15.0 tf%
pH value:	Not available

9.2. Other information

Not available

10. Stability and reactivity

10.1. Reactivity

Not available

10.2. Chemical stability

Stable in case of normal use

10.3. Possibility of hazardous reactions

Not available

10.4. Conditions to avoid:

Keep away from heat, ignition sources, hot surfaces, sparks, open flame

10.5. Incompatible materials

Strong oxidants

10.6. Hazardous decomposition products:

In case of fire toxic gases may be released (CO, CO₂)

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity: not available

Data related to individual components:

Denatured alcohol:

Acute toxicity:

LC 50 (inhaled, rat): >8,000 mg/l/ 4 hours (waterless substance)

LD 50 (oral, rat): >6,200 mg/kg

LD 50 (dermal, rabbit): >20,000 mg/kg

Other information: If inhaled: mild mucus membrane irritation

If in eyes: mild irritation

If in case of the absorption of a larger quantity: vertigo, drunkenness, intoxication, respiratory paralysis

Data on PB heating and fuel material (Propane/butane) (mixture):

Propane (inhaled, rat): >800,000 ppm/ 4 hours 15 minutes (file data)

n-butane (inhaled, rat): 277,000 ppm/ 4 hours (file data)

isobutene (inhaled, rat): 277,000 ppm/ 4 hours (file data)

If inhaled: mild mucus membrane irritation

If in eyes: mild irritation

If in case of the absorption of a larger quantity: vertigo, drunkenness, intoxication, respiratory paralysis

Skin corrosion/skin irritation: Non-irritant (the risk of frost bite/burn injury exists)

Serious eye damage/eye irritation: Non-irritant (the risk of frost bite/burn injury exists)

Respiratory organ or skin

sensitization:

Non-toxic, but because of its aspirational (lack of oxygen) effect it may be dangerous



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	If inhaled in a high concentration it may have a narcotic effect
Germ cell mutagenicity:	Not available
Carcinogenicity:	Not available
Reproductive toxicity:	Not available
Specific organ toxicity after single exposure (STOT SE):	Not available
Specific organ toxicity after repeated exposure (STOT RE):	Not available
Aspiration hazard:	Swallowing the product is unlikely

12. Ecological Information

12.1. Toxicity

Do not release the mixture into a natural body of water, public sewage system, or soil

12.2. Persistence and degradability

Data on denatured alcohol:

Instantly degradable

12.3. Bioaccumulative potential

Data on PB heating and fuel material (Propane/butane:

propane: =< 2.8 (file data)

butane: =< 2.8 (file data)

isobutene: =< 2.8 (file data)

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

Not available

12.6. Other adverse effects

Data on denatured alcohol:

In high concentration it may cause damage to aquatic organisms.

LC 50 (fish (L. idius): 8,140 mg/l /48 hours (waterless substance)

Does not contain any compounds that damage the ozone layer.

13. Disposal considerations

13.1. Waste treatment methods

Advice related to the product: Conform to local regulations during disposal. [Government Decree No 98/2001. (VI. 15.) on the conditions of activities related to hazardous waste]

Waste code specification: **EWC-code: 160504* gases in pressure containers (including halons) containing dangerous substances.**

This product's classification into the appropriate EWC category, thus the appropriate EWC-code depends on the usage of the substance. If the substance needs to be stored or if you need the EWC-code classification, please consider the applicable regulations. [Ministry of Rural Development Decree No 72/2013. (VIII. 27.) on waste registry]

Advice related to contaminated packaging material: Conform to local regulations during disposal. [Government Decree No 442/2012. (XII. 29.) on packaging and waste management activity related to packaging waste]

14. Transport information

Transport

highway/rail

ADR/RID

14.1. UN-code

1950



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14.2. Designation of transport appropriate according to the UN

Aerosols, flammable

14.3. Transport risk categories

Category:

2

Classification code:

5F

Labels:

2.1

Tunnel restriction code:

(B1D)

Restricted quantity:

LQ2

14.4. Packaging category

14.5. Environmental risks: -

14.6. Special precautions affecting the user: -

14.7. Supplement 73/78 II of MARPOL and bulk transport according to the IBC codex: -

15. Regulatory information

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

Effective Hungarian regulations/legislation:

Hazardous substance, mixtures:

Act XXV of 2000 on chemical safety, Ministry of Health Decree No 44/2000. (XII. 27.) on procedures related to hazardous materials and hazardous preparations, and amendment thereof,

[Ministry of Social and Family Affairs Decree 33/2004. (IV. 26.) on the detailed rules related to procedures and activities involving hazardous substances and hazardous mixtures.

1907/2006/EC REACH (2006. December 18.), and amendment thereof Directive No **453/2010/EU** (2010. May 20.)

European Parliament and Commission Directive No **1272/2008/EC** on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/ECC and 1999/45/EC, and amending Regulation 1907/2006/EC.

Ministry of Health - Ministry of Social and Family Affairs joint Decree No 25/2000. (IX.30.) on chemical safety of workplaces,

Ministry of National Development and Economy Decree No 1/2010. (I. 8.) on the requirements related to the distribution of aerosol products and aerosol packaging.

Hazardous waste:

Ministry of Rural Development Decree No 72/2013. (VIII. 27.) on waste registry,

Government Decree No 98/2001. (VI. 15.) on the conditions of activities related to hazardous waste,

Government Decree No 442/2012. (XII. 29.) on packaging and waste management activity related to packaging waste.

Fire-safety:

Ministry of Interior Decree No 28/2011. (IX. 6.) on the National Fire Code Act XCIII of 1993 on work-safety,

Work-safety:

Ministry of Health - Ministry of Social and Family Affairs joint Decree No 3/2002. (II. 8.) on the minimum level of the work-safety requirement of workplaces.

15.2. Chemical Safety Assessment

None.

16. Other information

The specified information is based on our knowledge of the above product obtained until the compilation of the safety data sheet. The data do not constitute any kind of guarantee related to the application characteristics of the product. The safety data sheet does not exempt the user from the knowledge and application of other regulations pertaining to his activity. We call the attention of users to the risks originating from the usage of the chemical substance not according to its intended purpose.



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Hazardous components, R and H statements:

H 220 Extremely flammable gas.
H 225 Highly flammable liquid and vapour
H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.

Flam. Liq. 2: Highly flammable liquid 2

Flam. Gas 1: Highly flammable gas 1

Press. Gas: Pressurized gas

Sell details in sections: 2, 3, 6, 8, 11, 14, 15, 16.

Prepared for a chemical product according to 1907/2006/EC REACH and 1272/2008/EC

Prepared by ENVIROBEST Kft. (1065 Budapest, Bajcsy-Zsilinszky út 61.) based on data provided by the manufacturer

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