

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.05.2015

Version number 39

Revision: 11.05.2015

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

· **1.1 Product identifier**

· **Trade name:** Air Conditioner Cleaner

· **Article number:** LOS835

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

No further relevant information available.

· **Application of the substance / the mixture** Disinfectant

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Euro-Lock Vertriebs-GmbH

Nordweststr. 3

D-59387 Ascheberg

Tel.: +49 (0) 2593 / 95887-0

Fax: +49 (0) 2593 / 95887-29

www.euro-lock.de info@euro-lock.de

· **Further information obtainable from:**

Tel.: +49 (0) 2593 / 95887-0

E-Mail: info@euro-lock.de

· **1.4 Emergency telephone number:**

Tel.: +49 (0) 2593 / 95887-0 Monday-Thursday from 8.00 a.m. - 5.00 p.m. and Friday from 8.00 a.m. - 1.00 p.m.

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



F+; Extremely flammable

R12: Extremely flammable.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

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

· **Hazard pictograms**



GHS02



GHS07

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 11.05.2015

Version number 39

Revision: 11.05.2015

Trade name: Air Conditioner Cleaner LOS835



















(Contd. of page 1)

- **Signal word** *Danger*
- **Hazard statements**
 - H222-H229 *Extremely flammable aerosol. Pressurised container: May burst if heated.*
 - H319 *Causes serious eye irritation.*
 - H412 *Harmful to aquatic life with long lasting effects.*
- **Precautionary statements**
 - 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.*
 - P280 *Wear protective gloves / eye protection / face 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.*
 - P410+P412 *Protect from sunlight. Do not expose to temperatures exceeding 50 °C.*
 - P501 *Dispose of contents/container to hazardous or special waste collection point.*
- **Additional information:**
 - EUH208 *Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.*
 - Buildup of explosive mixtures possible without sufficient ventilation.*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** *Mixture of substances listed below with nonhazardous additions.*

· **Dangerous components:**

CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane  F+ R12  Flam. Gas 1, H220; Press. Gas C, H280	10-20%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane  F+ R12  Flam. Gas 1, H220; Press. Gas C, H280	10-20%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane  F+ R12  Flam. Gas 1, H220; Press. Gas C, H280	2.5-10%
CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35-xxxx	1-methoxy-2-propanol R10-67  Flam. Liq. 3, H226;  STOT SE 3, H336	2.5-10%
	C13 Alcohol, etoxylated  Xn R22;  Xi R41  Eye Dam. 1, H318;  Acute Tox. 4, H302	1.0-2.5%
CAS: 5989-27-5 EINECS: 227-813-5	(R)-p-mentha-1,8-diene  Xi R38;  Xi R43;  N R50/53 R10  Flam. Liq. 3, H226;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Skin Irrit. 2, H315; Skin Sens. 1, H317	0.1-1.0%

(Contd. on page 3)

GB

Safety data sheet

according to 1907/2006/EC, Article 31













Printing date 11.05.2015

Version number 39

Revision: 11.05.2015

Trade name: Air Conditioner Cleaner LOS835

(Contd. of page 2)

CAS: 68424-85-1	Quarternäre Ammoniumverbindungen, Benzyl C12-C16 alkyldimethyl Chlorid  C R34;  Xn R22;  N R50  Skin Corr. 1B, H314;  Aquatic Acute 1, H400;  Acute Tox. 4, H302	0.1-1.0%
CAS: 85409-23-0 EINECS: 287-090-7	Quaternäre Ammoniumverbindung, C12-14-Alkyl[ethylphenyl]methyl]dimethyl-, Chloride  C R34;  Xn R22;  N R50  Skin Corr. 1B, H314;  Aquatic Acute 1, H400;  Acute Tox. 4, H302	0.1-1.0%

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	≥ 30%
perfumes (D-LIMONENE, CITRAL)	< 5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Take affected persons into fresh air and keep quiet.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Immediately remove any clothing soiled by the product.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **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.

· **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:**

Foam

Fire-extinguishing powder

Carbon dioxide

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.05.2015

Version number 39

Revision: 11.05.2015

Trade name: Air Conditioner Cleaner LOS835

(Contd. of page 3)

- **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:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with skin and eyes.
- **Information about fire - and explosion protection:**
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.
Do not spray onto a naked flame or any incandescent material.
- **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:** Not required.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

106-97-8 butane

WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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107-98-2 1-methoxy-2-propanol

WEL	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm Sk
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- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Recommended filter device for short term use:** Filter AX
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.05.2015

Version number 39

Revision: 11.05.2015

Trade name: Air Conditioner Cleaner LOS835

(Contd. of page 4)

- **Material of gloves**
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.5 mm
- **Penetration time of glove material**
 ≥ 240 min
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Aerosol
Colour:	White
Odour:	Pleasant

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Not applicable, as aerosol.

· **Flash point:** Not applicable, as aerosol.

· **Ignition temperature:** >200 °C

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Density at 20 °C:** 0.775 g/cm³

· Solubility in / Miscibility with

water:	Easily soluble.
Organic solvents:	39.4 %
VOC (EC)	305.1 g/l

· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 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:** Carbon monoxide and carbon dioxide

GB

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.05.2015

Version number 39

Revision: 11.05.2015

Trade name: Air Conditioner Cleaner LOS835

(Contd. of page 5)

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	6895 mg/kg
Inhalative	LC50/4 h	87.3 mg/l (rat)

75-28-5 isobutane

Inhalative	LC50/4 h	>50 mg/l (rat)
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74-98-6 propane

Inhalative	LC50/4 h	20 mg/l (rat)
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106-97-8 butane

Inhalative	LC50/4 h	658 mg/l (rat)
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107-98-2 1-methoxy-2-propanol

Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	13000 mg/kg (rabbit)
Inhalative	LC50/4 h	6 mg/l (rat)

C13 Alcohol, etoxylated

Oral	LD50	500 mg/kg (ATE)
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5989-27-5 (R)-p-mentha-1,8-diene

Oral	LD50	4400 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)

68424-85-1 Quarternäre Ammoniumverbindungen, Benzyl C12-C16 alkyldimethyl Chlorid

Oral	LD50	500 mg/kg (ATE)
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85409-23-0 Quaternäre Ammoniumverbindung, C12-14-Alkyl[ethylphenyl)methyl]dimethyl-, Chloride

Oral	LD50	500 mg/kg (ATE)
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· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitisation:** No sensitising effects known.

· **Additional toxicological information:** Vapours have narcotic effect.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

5989-27-5 (R)-p-mentha-1,8-diene

EC50/48 h	0.67 mg/l (daphnia)
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· **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

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Version number 39

Revision: 11.05.2015

Trade name: Air Conditioner Cleaner LOS835

(Contd. of page 6)

- **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.

- **European waste catalogue**

16 05 04	gases in pressure containers (including halons) containing dangerous substances
15 01 04	metallic packaging

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
· **ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
· **ADR** UN1950 AEROSOLS
· **IMDG** AEROSOLS
· **IATA** AEROSOLS, flammable
- **14.3 Transport hazard class(es)**
· **ADR**

· **Class** 2 5F Gases.
· **Label** 2.1
- **IMDG, IATA**

· **Class** 2.1
· **Label** 2.1
- **14.4 Packing group**
· **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:**
· **Marine pollutant:** No
- **14.6 Special precautions for user** Warning: Gases.
· **Danger code (Kemler):** -
· **EMS Number:** F-D,S-U
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

(Contd. on page 8)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.05.2015

Version number 39

Revision: 11.05.2015

Trade name: Air Conditioner Cleaner LOS835

(Contd. of page 7)

· 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":

UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information**· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No further relevant information available.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other 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.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R10 Flammable.

R12 Extremely flammable.

R22 Harmful if swallowed.

R34 Causes burns.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R50 Very toxic to aquatic organisms.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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

(Contd. on page 9)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.05.2015

Version number 39

Revision: 11.05.2015

Trade name: Air Conditioner Cleaner LOS835

(Contd. of page 8)

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Gas 1: Flammable gases, Hazard Category 1
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
Press. Gas C: Gases under pressure: Compressed gas
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

*** Data compared to the previous version altered.**

GB