

Printing date 02.06.2015 Version number 4 Revision: 02.06.2015

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

- · 1.1 Product identifier
- · Trade name: CHEMISOL AIRCO CLEANER SPRAY
- · Article number: CHC030104
- 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 Cleaning agent/ Cleaner
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

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- · Further information obtainable from: Quality Department qualidade@lusavouga.pt
- 1.4 Emergency telephone number: +31 (0)561-694400 (09:00h 17:00h)

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



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

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



F+; Extremely flammable

R12: Extremely flammable.

· 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.

Warning! Pressurised container.

· 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



- · Signal word Danger
- · Hazard statements

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

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· Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe spray.

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.

P211 Do not spray on an open flame or other ignition source.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local regulations.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:						
CAS: 107-98-2 EINECS: 203-539-1 Index number: 603-064-00-3 Reg.nr.: 01-2119457435-35-xxxx	1-methoxy-2-propanol	R10-67 Flam. Liq. 3, H226 STOT SE 3, H336	5-10%			
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane	 F+ R12 Flam. Gas 1, H220 Press. Gas C, H280 	5-10%			
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane	 F+ R12 Flam. Gas 1, H220 Press. Gas C, H280 	2.5-5%			
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx	isobutane	 F+ R12 Flam. Gas 1, H220 Press. Gas C, H280 	2.5-5%			
CAS: 1336-21-6 EINECS: 215-647-6 Index number: 007-001-01-2	ammonia	© C R34 N R50 Skin Corr. 1B, H314 ↑ Aquatic Acute 1, H400	0.1-1%			

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

· 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.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor 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.

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15 - 30%

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SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or 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: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

· 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.
- · 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

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

· 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 $^{\circ}$ 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: 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.

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· 8.1 Control parameters

	0.1	one of parameters
	· Ingre	dients with limit values that require monitoring at the workplace:
I	107-9	8-2 1-methoxy-2-propanol
Ì	WEL	Short-term value: 560 mg/m³, 150 ppm
١		Long-term value: 375 mg/m³, 100 ppm
ı		Sk
Ì	106-9	7-8 butane
İ	WEL	Short-term value: 1810 mg/m³, 750 ppm
١		Long-term value: 1450 mg/m³, 600 ppm
١		Carc (if more than 0.1% of buta-1.3-diene)

- · 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.

Do not inhale gases / fumes / aerosols.

- · Respiratory protection: Not required.
- · Protection of hands: Not required.
- · Material of gloves Not required.
- · Penetration time of glove material Not required.
- · Eye protection: Not required.

9.1 Information on basic physical and chemical properties				
General Information Appearance:				
Form:	Aerosol			
Colour:	According to product specification			
Odour:	Characteristic			
Odour threshold:	Not determined.			
pH-value:	Not determined.			
Change in condition				
Melting point/Melting range:	Undetermined.			
Boiling point/Boiling range:	Not applicable, as aerosol.			
Flash point:	< 0 °C (< 32 °F)			
•	Not applicable, as aerosol.			
Flammability (solid, gaseous):	Not applicable.			
Ignition temperature:	270 °C (518 °F)			
Decomposition temperature:	Not determined.			
Self-igniting:	Product is not selfigniting.			
Danger of explosion:	Product is not explosive. However, formation of explosive air/			
	vapour mixtures are possible.			
Explosion limits:				
Lower:	Not determined.			
Upper:	Not determined.			
Vapour pressure at 20 °C (68 °F):	3500 hPa (2625 mm Hg)			
Density at 20 °C (68 °F):	0.92541 g/cm³ (7.723 lbs/gal)			
Relative density	Not determined.			

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· Vapour density	Not determined.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octano	l/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	22.5 %	
· EU-VOC:	709.6 g/l	
· EU-VOC in %:	22.50 %	
· Water:	76.3 %	
· Solids content:	0.6 %	
· 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: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

	TICHIC IONI			
	· LD/LC50 values relevant for classification:			
	107-98-2 1-methoxy-2-propanol			
	Oral	LD50	5660 mg/kg (rat)	
	Dermal	LD50	13000 mg/kg (rabbit)	
	Inhalative	LC50 / 4 h	55 mg/m3 (rat)	
	106-97-8 butane			
	Inhalative LC50 / 4 h 658000 mg/m3 (rat)			
	1336-21-6 ammonia			
	Oral	LD50	350 mg/kg (rat)	
	Inhalative	LC50 / 4 h	5.1 mg/m3 (rat)	
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- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxi	icity:
107-98-2 1-1	methoxy-2-propanol
	>1000 mg/l (actief slib)
LC50 / 96 h	4600-10000 mg/l (Leuciscus idus)
1336-21-6 а	mmonia
LC50 / 96 h	0.101 mg/l (daphnia magna)
	0.89 mg/l (fish)

- · 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.
- · 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.

- · 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			
20 01 13*	solvents			
15 01 04	metallic packaging			

- · Uncleaned packaging:
- · Recommendation: Non contaminated packagings may be recycled.

SECTION 14: Transport information

· ADR, IMDG, IATA	UN1950
· 14.1 UN-Number	

· 14.2 UN proper shipping name

 $\begin{array}{ccc} \cdot ADR & & 1950 \ AEROSOLS \\ \cdot IMDG & & AEROSOLS \\ \cdot IATA & & AEROSOLS, flammable \end{array}$

- · 14.3 Transport hazard class(es)
- $\cdot ADR$



· Class 2 5F Gases.

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Label	2.1	
IMDG, IATA		
2		
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):	- E D C H	
EMS Number:	F-D,S-U Alkalis	
Segregation groups		
14.7 Transport in bulk according to Ann		
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	IL .	
Excepted quantities (EQ)	Code: E0	
Transport category	Not permitted as Excepted Quantity	
Transport category Tunnel restriction code	2 D	
IMDG	IL	
Limited quantities (LQ) Excepted quantities (EQ)	TL Code: E0	
Excepted quantities (EQ)	Not permitted as Excepted Quantity	
UN "Model Regulation":	UN1950, AEROSOLS, 2.1	

SECTION 15: Regulatory information

- \cdot 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.
- · 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.

H314 Causes severe skin burns and eye damage.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

R10 Flammable.

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R12 Extremely flammable.

R34 Causes burns.

R50 Very toxic to aquatic organisms.

R67 Vapours may cause drowsiness and dizziness.

- · Department issuing MSDS: Quality Department
- · Contact: qualidade@lusavouga.pt
- · Abbreviations and acronyms:

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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

* Data compared to the previous version altered.

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