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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.06.2015

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

· 1.1 Product identifier

· Trade name: <u>CHEMISOL PTFE DRY SPRAY</u>

· Article number: CHC040101

- 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 Preparation

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier: LUSAVOUGA, S.A. Edificio Lusavouga - Avenida Europa, 375 3800 - 533 CACIA Aveiro (Portugal) +351 234 915 010 | +351 234 915 015 lusavouga@lusavouga.pt | www.lusavouga.com

• 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

GHS02 flame

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

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

GHS07

Eye Irrit. 2H319Causes serious eye irritation.STOT SE 3H336May cause drowsiness or dizziness.Chair Gradient Control Co

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

F+; Extremely flammable

R12: Extremely flammable.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

· 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.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. (Contd. on page 2) Page 2/9

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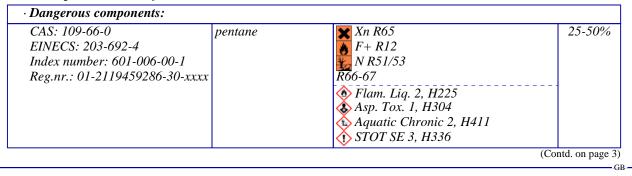
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	(Contd. of page
	Pressurised container.
	rcotising effect.
	ation system:
	ification is according to the latest editions of the EU-lists, and extended by company and literature
data.	
	lelements
	g according to Regulation (EC) No 1272/2008
	uct is classified and labelled according to the CLP regulation.
Hazard p	ictograms
$\mathbf{\Lambda}$	\wedge \wedge
JHL \	
<u>(63</u>)	
GHS02	GHS07 GHS09
Signal w	ord Danger
-	letermining components of labelling:
pentane	
- propan-2	-ol
Hazard s	tatements
H222-H2	29 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
Precautio	onary 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.
	12 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local regulations.
	al information:
	Repeated exposure may cause skin dryness or cracking.
2.3 Other	
	f PBT and vPvB assessment
	t applicable.
vPvB: No	ot applicable.
SECTL	ON 3: Composition/information on ingredients

• Description: Mixture of substances listed below with nonhazardous additions.



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		(Co	ntd. of page 2)
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane	 <i>F</i>+ <i>R</i>12 <i>F</i>lam. Gas 1, H220 <i>Press. Gas C</i>, H280 	20-25%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane	 <i>F</i>+ <i>R</i>12 <i>F</i>lam. Gas 1, H220 <i>Press. Gas C, H280</i> 	12.5-20%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx	isobutane	 <i>F</i>+ <i>R</i>12 <i>F</i>lam. Gas 1, H220 <i>Press. Gas C</i>, H280 	12.5-20%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol	Xi R36 F R11 R67 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	10-12.5%

• 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.

- 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.
- \cdot 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:

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.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling 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 °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.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:
- 109-66-0 pentane
- WEL Long-term value: 1800 mg/m³, 600 ppm

106-97-8 butane

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm

• 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.

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9.1 Information on basic physical an	nd chemical properties
General Information	* *
Appearance:	
Form:	Aerosol
Colour:	According to product specification
Odour: Odour threshold:	Characteristic Not determined.
pH-value:	Not determined.
Change in condition	II. determined
Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Not applicable, as aerosol.
Flash point:	<0 °C (<32 °F)
	Not applicable, as aerosol.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	285 °C (545 °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:	1.4 Vol %
Upper:	12.0 Vol %
Vapour pressure at 20 $^{\circ}C$ (68 $^{\circ}F$):	3500 hPa (2625 mm Hg)
Density at 20 °C (68 °F):	0.60288 g/cm ³ (5.031 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	99.8 %
Solids content:	1.2 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity

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· 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.

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· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

· LD/LC50 values relevant for classification:

109-66-0 pentane				
Oral	LD50	>16000 mg/kg (rat)		
Dermal	LD50	>2500 mg/kg (rat)		
		>5000 mg/kg (rabbit)		
Inhalative	LC50 / 4 h	>100 mg/m3 (rat)		
106-97-8 l	106-97-8 butane			
Inhalative	LC50 / 4 h	658000 mg/m3 (rat)		
67-63-0 propan-2-ol				
Oral	LD50	5045 mg/kg (rat)		
Dermal	LD50	12800 mg/kg (rabbit)		
Inhalative	LC50 / 4 h	30 mg/m3 (rat)		
· Primary irritant effect:				

· Skin corrosion/irritation No irritant effect.

· Serious eye damage/irritation No irritating effect.

· Respiratory or skin sensitisation No sensitising effects known.

SECTION 12: Ecological information

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· 12.1 Toxicity			
· Aquatic toxicity:			
109-66-0 pentane			
EC50 / 48 h	9.7 mg/l (daphnia magna)		
LC50 / 96 h	1-10 mg/l (fish)		
67-63-0 propan-2	2-01		
EC50 / 48 h	13299 mg/l (daphnia magna)		
LC50 / 96 h (dyn	amic) 4200 mg/l (fish)		
• Ecotoxical effect • Remark: Toxic fe			
	uss 2 (German Regulation) (Self-assessment): hazardous for water duct to reach ground water, water course or sewage system.		
Also poisonous fe	ng water if even small quantities leak into the ground. or fish and plankton in water bodies.		
Toxic for aquatic • 12.5 Results of P • PBT: Not applied	BT and vPvB assessment		
• vPvB : Not applied			

· 12.6 Other adverse effects No further relevant information available.

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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

14 06 03* other solvents and solvent mixtures

15 01 04 metallic packaging

· Uncleaned packaging:

· Recommendation: Non contaminated packagings may be recycled.

14.1 UN-Number	UN1950
ADR, IMDG, IATA	0141950
14.2 UN proper shipping name ADR	1050 AEDOCOLC ENVIDONMENTALLY HAZADDOLIC
ADK IMDG	1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS
IATA	AEROSOLS, flammable
14.3 Transport hazard class(es)	· ·
ADR	
Class	2 5F Gases.
Label	2.1
Class Label	2.1 2.1
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Product contains environmentally hazardous substances.
	pentane
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 Anne MARPOL73/78 and the IBC Code	e x II of Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ) Excepted quantities (EQ)	
Exponented quantities (E(1))	Code: E0

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· Transport category	2
• Tunnel restriction code	D
·IMDG	
· Limited quantities (LQ)	lL
\cdot Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· UN "Model Regulation":	UN1950, AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

· 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.
- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- R11 Highly flammable.
- R12 Extremely flammable.
- R36 Irritating to eyes.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- *R65 Harmful: may cause lung damage if swallowed.*
- *R66 Repeated exposure may cause skin dryness or cracking.*
- *R67* Vapours may cause drowsiness and dizziness.

· Department issuing MSDS: Quality Department

- · Contact: qualidade@lusavouga.pt
- · 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
- 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. 2: Flammable liquids, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- STOT SE 3: Specific target organ toxicity Single exposure, Hazard Category 3

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- Asp. Tox. 1: Aspiration hazard, Hazard Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment Chronic Hazard, Category 2 * **Data compared to the previous version altered.**

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