

***SAFETY DATA SHEET***  
***according to 1907/2006/EC, Article 31***

*Revision date: 30.03.2022*

**1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/  
UNDERTAKING**

**Product details**

**Trade name:** Cockpit clean & protect, vanilla

**Article number:** 49753

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

No further relevant information available.

**Sector of Use:**

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Product category:** Flux agents for casting

**Process category:**

PROC7 Industrial spraying

PROC11 Non industrial spraying

**Intended use:** Preparation

**Manufacturer/Supplier:**

Chamäleon GmbH

Rudolf-Diesel-Straße 8a

69115 Heidelberg

Germany

**Further information obtainable from:** Product Safety Department

**Information in case of emergency:** + 49 70024112112 (CH)

**2 – HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

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



flame

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



environment

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



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

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

**Hazard pictograms**

GHS02

GHS07

GHS09

**Signal word** Danger**Hazard-determining components of labelling**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane

pentane

propan-2-ol

**Hazard statements**

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

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic 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.

P260 Do not breathe spray.

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

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

**Additional information:**

Buildup of explosive mixtures possible without sufficient ventilation.

**Other hazards****Results of PBT and vPvB assessment**

**PBT:** Not applicable.  
**vPvB:** Not applicable.

### 3- COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

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

<b>Dangerous components:</b>		
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane	20-<25%
	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	
EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	12.5-<20%
	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 109-66-0 EINECS: 203-692-4 Index number: 601-006-00-1 Reg.nr.: 01-2119459286-30	pentane	12.5-<20%
	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336 EUH066	
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane (containing < 0,1 % butadiene (203-450-8))	12.5-<20%
	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8))	12.5-<20%
	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	
EC number: 918-481-9 Reg.nr.: 01-2119457273-39	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	5-<10%
	Asp. Tox. 1, H304 EUH066	
CAS: 67-63-0	propan-2-ol	2.5-<5%

EINECS: 200-661-7	Flam. Liq. 2, H225
Index number: 603-117-00-0	Eye Irrit. 2, H319; STOT SE 3, H336
Reg.nr.: 01-2119457558-25	

**Additional information:**

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1A 1272/2008 EU), so the classification as carcinogen need not to apply.

For the wording of the listed hazard phrases refer to section 16.

**4- FIRST - AID MEASURES****Description of first aid measures**

**After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

**Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

**5- FIRE - FIGHTING MEASURES****Extinguishing media**

**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

**Special hazards arising from the substance or mixture:**

During heating or in case of fire poisonous gases are produced.

**Advice for firefighters -**

**Protective equipment:** Mouth respiratory protective device.

**6- ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

**Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water

**Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

**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.

**7- HANDLING AND STORAGE**

**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.

Keep respiratory protective device available.

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

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurised containers.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep container tightly sealed.

**Storage class:** 2 B

**Specific end use(s):** No further relevant information available.

**8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
109-66-0 pentane	
WEL	Long-term value: 1800 mg/m <sup>3</sup> , 600 ppm
106-97-8 butane (containing < 0,1 % butadiene (203-450-8))	
WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 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/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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DNELs		
109-66-0 pentane		
Oral	DNEL	214 mg/kg /per day (Consumer, longterm systemic)
Dermal	DNEL	432 mg/kg /per day (Worker, longterm systemic)
Inhalative	DNEL	214 mg/kg /per day (Consumer, longterm systemic)
	DNEL	3000 mg/m <sup>3</sup> (Worker, longterm systemic)
	DNEL	643 mg/m <sup>3</sup> (Consumer, longterm systemic)
67-63-0 propan-2-ol		
Oral	DNEL	26 mg/kg /per day (Consumer, longterm systemic)
Dermal	DNEL	888 mg/kg /per day (Worker, longterm systemic)
Inhalative	DNEL	319 mg/kg /per day (Consumer, longterm systemic)
	DNEL	500 mg/m <sup>3</sup> (Worker, longterm systemic)
	DNEL	89 mg/m <sup>3</sup> (Consumer, longterm systemic)

PNECs	
109-66-0 pentane	
PNEC	0.23 mg/l (Freshwater)
PNEC	0.23 mg/l (Seawater)
PNEC	0.88 mg/l (Sporadic release)
PNEC	3.6 mg/l (Sewage treatment plant)
PNEC	1.2 mg/kg (Freshwater sediment)
PNEC	0.55 mg/kg (Soil)
PNEC	1.2 mg/kg (Seawater sediment)
67-63-0 propan-2-ol	
PNEC	140.9 mg/l (Freshwater)
PNEC	140.9 mg/l (Seawater)
PNEC	140.9 mg/l (Sporadic release)
PNEC	2251 mg/l (Sewage treatment plant)
PNEC	552 mg/kg (Freshwater sediment)
PNEC	552 mg/kg (Seawater sediment)

**Additional information:** The lists valid during the making were used as basis.

### Exposure controls

**Appropriate engineering controls:** No further data; see item 7.

**Individual protection measures, such as 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.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A2/P3

**Hand protection:** Protective gloves

**Material of gloves:**

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Penetration time of glove material:**

Butyl rubber gloves with a thickness of 0.4 mm are resistant to:

Acetone: 480 min

Butyl acetate: 60 min

Ethyl acetate: 170 min

Xylene: 42 min

Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42- 480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in particular cases.

**Eye/face protection:** Not required.

**9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**General Information**

<b>Physical state:</b>	<i>Aerosol</i>
<b>Colour:</b>	<i>Colourless</i>
<b>Odour:</b>	<i>Aromatic</i>
<b>Odour threshold:</b>	<i>Not determined.</i>
<b>Melting point/freezing point:</b>	<i>Undetermined.</i>
<b>Boiling point or initial boiling point and boiling range</b>	<i>Not applicable, as aerosol.</i>
<b>Flammability:</b>	<i>Not applicable.</i>
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	<i>0.6 Vol %</i>

<b>Upper:</b>	<i>10.9 Vol %</i>
<b>Flash point:</b>	<i>Not applicable, as aerosol.</i>
<b>Auto-ignition temperature:</b>	<i>&gt;200 °C (&gt;392 °F)</i>
<b>Decomposition temperature:</b>	<i>Not determined.</i>
<b>pH</b>	<i>Mixture is non-soluble (in water).</i>
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	<i>Not determined.</i>
<b>Dynamic:</b>	<i>Not determined.</i>
<b>Solubility</b>	
<b>water:</b>	<i>Not miscible or difficult to mix.</i>
<b>Partition coefficient n-octanol/water (log value)</b>	<i>Not determined.</i>
<b>Vapour pressure at 20 °C (68 °F):</b>	<i>3500 hPa (2625.2 mm Hg)</i>
<b>Density and/or relative density</b>	
<b>Density at 20 °C (68 °F):</b>	<i>0.7 g/cm<sup>3</sup> (5.8 lbs/gal)</i>
<b>Relative density</b>	<i>Not determined.</i>
<b>Vapour density</b>	<i>Not determined.</i>
<b>Other information</b>	
<b>Appearance:</b>	
<b>Form:</b>	<i>Aerosol</i>
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Explosive properties:</b>	<i>Not determined.</i>
<b>Solvent content:</b>	
<b>Organic solvents:</b>	<i>95.8 %</i>
<b>VOC (EC)</b>	<i>---</i>
	<i>669.7 g/l</i>
<b>VOC-EU%</b>	<i>95.80 %</i>
<b>Solids content:</b>	<i>3.9 %</i>
<b>Change in condition</b>	
<b>Evaporation rate</b>	<i>Not applicable.</i>
<b>Information with regard to physical hazard classes</b>	
<b>Explosives</b>	<i>Void</i>
<b>Flammable gases</b>	<i>Void</i>
<b>Aerosols</b>	<i>Extremely flammable aerosol. Pressurised container: May burst if heated.</i>
<b>Oxidising gases</b>	<i>Void</i>
<b>Gases under pressure</b>	<i>Void</i>
<b>Flammable liquids</b>	<i>Void</i>
<b>Flammable solids</b>	<i>Void</i>
<b>Self-reactive substances and mixtures</b>	<i>Void</i>

<b>Pyrophoric liquids</b>	<i>Void</i>
<b>Pyrophoric solids</b>	<i>Void</i>
<b>Self-heating substances and mixtures</b>	<i>Void</i>
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	<i>Void</i>
<b>Oxidising liquids</b>	<i>Void</i>
<b>Oxidising solids</b>	<i>Void</i>
<b>Organic peroxides</b>	<i>Void</i>
<b>Corrosive to metals</b>	<i>Void</i>
<b>Desensitised explosives</b>	<i>Void</i>

## 10- STABILITY AND REACTIVITY

**Reactivity** No further relevant information available.

**Chemical stability**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## 11- TOXICOLOGICAL INFORMATION

**Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity:** Based on available data, the classification criteria are not met.

<b>LD/LC50 values relevant for classification:</b>		
<b>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane</b>		
Oral	LD50	>5840 mg/kg (rat)
Dermal	LD50	>2920 mg/kg (rab)
Inhalative	LC50 / 4h	>25.2 mg/l (rat)
<b>109-66-0 pentane</b>		
Oral	LD50	>5000 mg/kg (rat)
Inhalative	LC50 / 4h	25.3 mg/l (rat)
<b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</b>		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50 / 4 h	>4951 mg/m3 (rat)
<b>67-63-0 propan-2-ol</b>		

Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	13900 mg/kg (rabbit)
Inhalative	LC50	>25 mg/l (rat) LC 50: 6h

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/irritation:** No irritating effect.

**Respiratory or skin sensitisation:** No sensitising effects known.

**STOT-single exposure:** May cause drowsiness or dizziness.

**Information on other hazards.**

Endocrine disrupting properties		
1222-05-5	1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran	List II
1506-02-1	1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (Fixolid)	List II

## 12 – ECOLOGICAL INFORMATION

### Toxicity

Aquatic toxicity:	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
EC50 / 48 h	3 mg/l (daphnia magna)
EC50 / 72 h	30-100 mg/l (algae)
LC50 / 96 h	11.4 mg/l (fish)
109-66-0 pentane	
EC50 / 48 h	9.7 mg/l (daphnia magna)
EC50 / 96 h	4.26 mg/l (fish)
LC50 / 96 h	4.26 mg/l (fish)
67-63-0 propan-2-ol	
LC50/96h	9640 mg/l (pimephales promelas; 96h)
LC50 / 24 h	9714 mg/l (daphnia magna)

**Persistence and degradability:** No further relevant information available.

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Endocrine disrupting properties:** For information on endocrine disrupting properties see section 11.

**Other adverse effects**

**Remark:** Toxic for fish

**Additional ecological information:**

**General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product

to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

### **13- DISPOSAL CONSIDERATION**

#### **Waste treatment methods**

##### **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

##### **Uncleaned packaging:**

##### **Recommendation:**

Disposal must be made according to official regulations.

Disposal must be made according to official regulations

### **14- TRANSPORT INFORMATION**

#### **UN number or ID number**

ADR, IMDG, IATA

UN1950

#### **UN proper shipping name**

ADR

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS

IMDG

AEROSOLS, MARINE POLLUTANT

IATA

AEROSOLS, flammable

#### **Transport hazard class(es)**

ADR



Class

2 5F Gases.

Label

2.1

#### **IMDG, IATA**



Class 2.1 Gases.  
Label 2.1

**Packing group**  
ADR, IMDG, IATA not regulated

**Environmental hazards:**  
**Special marking (ADR):** Symbol (fish and tree)

**Special precautions for user** Warning: Gases.  
Hazard identification number (Kemler code): -  
EMS Number: F-D,S-U  
Segregation groups Alkalis  
Stowage Code: SW1 Protected from sources of heat.  
SW22 For AEROSOLS with a maximum capacity of 1 litre:  
Category A. For AEROSOLS with a capacity above 1 litre:  
Category B. For WASTE AEROSOLS: Category C, Clear  
of living quarters.  
Segregation Code: SG69 For AEROSOLS with a maximum capacity of 1 litre:  
Segregation as for class 9. Stow "separated from" class 1  
except for division 1.4.  
For AEROSOLS with a capacity above 1 litre:  
Segregation as for the appropriate subdivision of class 2.  
For WASTE AEROSOLS:  
Segregation as for the appropriate subdivision of class 2.

**Maritime transport in bulk according to IMO instruments:** Not applicable.

**Transport/Additional information:**

**ADR**  
**Limited quantities (LQ)** 1L  
**Excepted quantities (EQ)** Code: E0  
Not permitted as Excepted Quantity  
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  
Code: E0

Not permitted as Excepted Quantity

UN "Model Regulation":

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY  
HAZARDOUS

### **15 – REGULATORY INFORMATION**

**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.

**Seveso category**

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### **16-OTHER INFORMATION**

**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.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

**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 relatif au transport international 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)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (UK REACH)  
PNEC: Predicted No-Effect Concentration (UK REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Gas 1A: Flammable gases – Category 1A  
Aerosol 1: Aerosols – Category 1  
Press. Gas (Comp.): Gases under pressure – Compressed gas  
Flam. Liq. 2: Flammable liquids – Category 2  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Asp. Tox. 1: Aspiration hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

The information contained in these sheets is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects and should not be construed as any guarantee of technical performance or suitability for particular applications.