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

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

**Product details**

**Trade name:** Penetrating Oil

**Article number:** 27007

**Intended use:** Car refinishing Product/ Screw loosening agent

**Manufacturer/Supplier:** Chamäleon GmbH

Rudolf-Diesel-Straße, 8a, 69155 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**



GHS02 flame

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

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.

R52/53-66-67: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 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.

Warning! Pressurised container.

Has a narcotising effect.



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### Classification system:

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

### Label elements

#### Labelling according to Regulation (EC) No 1272/2008

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

### Hazard pictograms



GHS02

**Signal word:** Danger

### Hazard statements:

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

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe spray.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P251 Pressurized container: 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.

### Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

### Other hazards

### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## 3- COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical characterisation: Mixtures

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

Dangerous components:		
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy (< 0,1	25-50%
EC number: 918-481-9	% benzol CAS nr. 71-43-2)	
Index number: 649-327-00-6	Xn R65	
Reg.nr.: 01-2119457273-39-xxxx	R66	
	Asp. Tox. 1, H304	



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CAS: 109-66-0 EINECS: 203-692-4 Index number: 601-006-00-1 Reg.nr.: 01-2119459286-30-xxxx	pentane Xn R65 F+ R12 N R51/53 R66-67	12.5-20%
	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336	
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane F+ R12	5-10%
	Flam. Gas 1, H220 Press. Gas, H280	
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane F+ R12	5-10%
	Flam. Gas 1, H220 Press. Gas, H280	
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx	isobutane F+ R12	5-10%
	Flam. Gas 1, H220 Press. Gas, H280	

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

#### **4- FIRST - AID MEASURE**

##### **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.

**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 MEASURE**

##### **Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.



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**For safety reasons unsuitable extinguishing agents:** Water with full jet  
**Special hazards arising from the substance or mixture** No further relevant information available.

**Advice for firefighters**

**Protective equipment:** No special measures required.

## **6- ACCIDENTAL RELEASE MEASURE**

### **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Keep away from ignition sources.

### **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.

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

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 °C, i.e. electric lights. Do not pierce or burn, even after use.

### **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.

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



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## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

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

### Control parameters

Ingredients with limit values that require monitoring at the workplace:	
109-66-0 pentane	
WEL	Long-term value: 1800 mg/m <sup>3</sup> , 600 ppm
106-97-8 butane	
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)

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

### 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 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties	General Information
<b>Appearance:</b>	
<b>Form:</b>	<i>Aerosol</i>
<b>Colour:</b>	<i>According to product specification</i>
<b>Odour:</b>	<i>Characteristic</i>
<b>Odour threshold:</b>	<i>Not determined.</i>
<b>pH-value:</b>	<i>Not determined.</i>
<b>Change in condition</b>	
<b>Melting point/Melting range: Boiling point/Boiling range:</b>	<i>Undetermined. Not applicable, as aerosol.</i>
<b>Flash point:</b>	<i>&lt; 0 °C (&lt; 32 °F) Not applicable, as aerosol.</i>
<b>Flammability (solid, gaseous):</b>	<i>Not applicable.</i>
<b>Ignition temperature:</b>	<i>240 °C (464 °F)</i>
<b>Decomposition temperature:</b>	<i>Not determined.</i>
<b>Self-igniting:</b>	<i>Product is not selfigniting.</i>



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<b>Danger of explosion:</b>	<i>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</i>
<b>Explosion limits:</b>	
<b>Lower:</b>	<i>0.6 Vol %</i>
<b>Upper:</b>	<i>8.0 Vol %</i>
<b>Vapour pressure at 20 °C (68 °F):</b>	<i>3500 hPa (2625 mm Hg)</i>
<b>Density at 20 °C (68 °F):</b>	<i>0.71162 g/cm<sup>3</sup> (5.938 lbs/gal)</i>
<b>Relative density</b>	<i>Not determined.</i>
<b>Vapour density</b>	<i>Not determined.</i>
<b>Evaporation rate</b>	<i>Not applicable.</i>
<b>Solubility in / Miscibility with water:</b>	<i>Not miscible or difficult to mix.</i>
<b>Partition coefficient (n-octanol/water):</b>	<i>Not determined.</i>
<b>Viscosity:</b>	
<b>Dynamic:</b>	<i>Not determined.</i>
<b>Kinematic:</b>	<i>Not determined.</i>
<b>Solvent content:</b>	
<b>Organic solvents:</b>	<i>70.0 %</i>
<b>EU-VOC:</b>	<i>498.1 g/l</i>
<b>EU-VOC in %:</b>	<i>70.00 %</i>
<b>Solids content:</b>	<i>0.4 %</i>
<b>Other information</b>	<i>No further relevant information available.</i>

## 10- STABILITY AND REACTIVITY

### Reactivity

#### 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 toxicological effects

#### Acute toxicity:



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LD/LC50 values relevant for classification:		
<b>64742-48-9 Naphtha (petroleum), hydrotreated heavy (&lt; 0,1 % benzol CAS nr. 71-43-2)</b>		
Oral	LD50	>15000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50 / 4 h	> 4951 mg/m <sup>3</sup> (rat)
<b>109-66-0 pentane</b>		
Oral	LD50	>16000 mg/kg (rat)
Dermal	LD50	>2500 mg/kg (rat) >5000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>100 mg/m <sup>3</sup> (rat)
<b>106-97-8 butane</b>		
Inhalative	LC50 / 4 h	658000 mg/m <sup>3</sup> (rat)

**Primary irritant effect:**

**on the skin:** No irritating effect.

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

**Sensitization:** No sensitising effects known.

**12 – ECOLOGICAL INFORMATION**

**Toxicity**

<b>Aquatic toxicity:</b>	
64742-48-9 Naphtha (petroleum), hydrotreated heavy (< 0,1 % benzol CAS nr. 71-43-2)	
LC50 / 96 h	>100 mg/l (crustacean (amphipod)) >100 mg/l (fish)
109-66-0 pentane	
LC50 / 48 h	9.7 mg/l (daphnia magna)
LC50 / 96 h	1-10 mg/l (fish)

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

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

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

**Ecotoxicological effects:**

**Remark:** Harmful to 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.

Harmful to aquatic organisms

**Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**Other adverse effects:** No further relevant information available.



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### 13- DISPOSAL CONSIDERATION

#### 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.

### 14- TRANSPORT INFORMATION

#### UN-Number

ADR, IMDG, IATA

UN 1950

#### UN proper shipping name

ADR

1950 AEROSOLS

IMDG

AEROSOLS

IATA

AEROSOLS, flammable

#### Transport hazard class(es)

ADR



Class

2.5F Gases.

Label

2.1

IMDG, IATA



Class

2.1

Label

2.1

#### Packing group

ADR, IMDG, IATA

Void





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**Environmental hazards:**

Marine pollutant: No

**Special precautions for user**

Warning: Gases.

Danger code (Kemler): -

EMS Number:

F-D,S-U

**Transport in bulk according to Annex II of  
MARPOL73/78 and the IBC Code** Not applicable.

**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

**15 – REGULATORY INFORMATION**

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

No further relevant information available.

**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.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.



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R12 Extremely flammable.

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.

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.