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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:** Brake Cleaner

**Article number:** 27006

**Intended use:** Car refinishing Product/ Cleaning agent/ Cleaner

**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.



GHS09 environment

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

Xi; Irritant

R38: Irritating to skin.

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.

R67: 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.

Warning! Pressurised container.

Has a narcotising effect.

**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**



**Signal word:** Danger

**Hazard-determining components of labelling:**

Naphtha (petroleum), hydrotreated light (< 0,1 % benzol CAS nr. 71-43-2)

**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**

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.



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#### Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### 3- COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical characterization: Substances

##### CAS No. Description

64742-49-0 Naphtha (petroleum), hydrotreated light (< 0,1 % benzol CAS nr. 71-43-2)

##### Identification number(s)

EC number: 265-151-9

Index number: 649-328-00-1

#### Chemical characterisation: Mixtures

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

Dangerous components:		
CAS: 64742-49-0 EC number: 921-024-6 Index number: 649-328-00-1 Reg.nr.: 01-2119475514-35-xxxx	Naphtha (petroleum), hydrotreated light (< 0,1 % benzol CAS nr. 71-43-2) Xn R65 Xi R38 F R11 N R51/53 R67 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; STOT SE 3, H336	75-100%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide Press. Gas, H280	5-10%

**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:** 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. Then consult a doctor.

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



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**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.

**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.

Do not flush with water or aqueous cleansing agents

#### **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.



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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.

## **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:	
124-38-9 carbon dioxide	
WEL	Short-term value: 27400 mg/m <sup>3</sup> , 15000 ppm Long-term value: 9150 mg/m <sup>3</sup> , 5000 ppm

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

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

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:** Not required.

**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.



Protective gloves



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### Material of gloves

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Not required.

## 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Appearance:</b>	
<b>Form:</b>	<i>Aerosol</i>
<b>Colour:</b>	<i>Colourless</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:</b>	<i>&lt;-25 °C (&lt;-13 °F)</i>
<b>Boiling point/Boiling range:</b>	<i>Not applicable, as aerosol.</i>
<b>Flash point:</b>	<i>&lt; 21 °C (&lt; 70 °F) Not applicable, as aerosol.</i>
<b>Flammability (solid, gaseous):</b>	<i>Not applicable.</i>
<b>Ignition temperature:</b>	<i>&gt; 200 °C (&gt; 392 °F)</i>
<b>Decomposition temperature:</b>	<i>Not determined.</i>
<b>Self-igniting:</b>	<i>Product is not selfigniting.</i>
<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>7.0 Vol %</i>
<b>Vapour pressure at 20 °C (68 °F):</b>	<i>5750 hPa (4313 mm Hg)</i>
<b>Density at 20 °C (68 °F):</b>	<i>0.715 g/cm<sup>3</sup> (5.967 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 determined.</i>
<b>Solubility in / Miscibility with water:</b>	<i>Not miscible or difficult to mix.</i>



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<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>	94.0 %
<b>EU-VOC:</b>	672.1 g/l
<b>EU-VOC in %:</b>	94.00 %
<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:

LD/LC50 values relevant for classification:		
<b>64742-49-0 Naphtha (petroleum), hydrotreated light (&lt; 0,1 % benzol CAS nr. 71-43-2)</b>		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2600 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>193 mg/m <sup>3</sup> (rat)

#### Primary irritant effect:

**on the skin:** Irritant to skin and mucous membranes.

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

**Sensitization:** No sensitising effects known.

#### Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant



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## 12 – ECOLOGICAL INFORMATION

### Toxicity

<b>Aquatic toxicity:</b>	
64742-49-0 Naphtha (petroleum), hydrotreated light (< 0,1 % benzol CAS nr. 71-43-2)	
LC50	127-159 mg/l (Leuciscus idus)

**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:** 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

### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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

## 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





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**UN proper shipping name**

ADR 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS  
IMDG AEROSOLS  
IATA AEROSOLS, flammable

**Transport hazard class(es)**

ADR



Class 2.1 Flammable Gases.  
Label 2.1

IMDG, IATA



Class 2.1  
Label 2.1

**Packing group**

ADR, IMDG, IATA Void

**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



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## IMDG

Limited quantities (LQ)

1L

Excepted quantities (EQ)

Code: E0

Not permitted as Excepted Quantity

UN "Model Regulation":

UN1950, AEROSOLS, 2.1, ENVIRONMENTALLY  
HAZARDOUS

## 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**

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.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

R11 Highly flammable.

R38 Irritating to skin.

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

R65 Harmful: may cause lung damage if swallowed.

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.