



Chamäleon GmbH  
Rudolf-Diesel-Straße, 8a  
69115 Heidelberg-Germany  
Tel.: +49-(0)-6221 520440  
Fax: +49-(0)-6221 520449  
E-mail: info@chamaeleon-produktion.de  
<http://www.chamaeleon-produktion.de>

***SAFETY DATA SHEET***  
***according to 1907/2006/EC, Article 3***      *Revision date: 10.11.2016*

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

**Product details**

**Trade name:** Gravex Spray Premium

**Article number:** 38014 (White)

**Intended use:** Car refinishing Product/ Anticorrosion additive

**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**



GHS02 flame

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



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**Label elements**

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

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

**Hazard pictograms**



GHS02



GHS07



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**Signal word** Danger

**Hazard-determining components of labelling:**

n-butyl acetate

Rosin

ethyl acetate

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

**Hazard statements**

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

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

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, 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

**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 characterization: Mixtures**

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

<b>Dangerous components:</b>		
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29-xxxx	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	12.5-20%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx	propane Flam. Gas 1, H220 Press. Gas C, H280	12.5-20%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx	butane Flam. Gas 1, H220 Press. Gas C, H280	5-10%



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CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27-xxxx	isobutane	5-10%
	Flam. Gas 1, H220 Press. Gas C, H280	
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46	ethyl acetate	5-10%
	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	
EC number: 920-750-0 Index number: 649-328-00-1 Reg.nr.: 01-2119473851-33	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclic	5-10%
	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336	
CAS: 8050-09-7 EINECS: 232-475-7 Index number: 650-015-00-7 Reg.nr.: 01-2119480418-32-xxxx	Rosin	2.5-5%
	Skin Sens. 1, H317	
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-xxxx	xylene	2.5-5%
	Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	

**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 and to be sure call for a doctor.

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.



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## **5– FIRE - FIGHTING MEASURE**

### **Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

**For safety reasons unsuitable extinguishing agents:**

Water

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.

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.



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**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**

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
123-86-4 n-butyl acetate	
WEL	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 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)
141-78-6 ethyl acetate	
WEL	Short-term value: 400 ppm Long-term value: 200 ppm
8050-09-7 Rosin	
WEL	Short-term value: 0.15 mg/m <sup>3</sup> Long-term value: 0.05 mg/m <sup>3</sup> Sen
1330-20-7 xylene	
WEL	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV

<b>Ingredients with biological limit values:</b>	
1330-20-7 xylene	
BMGV	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

**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



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Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

**Respiratory protection:** Not required.

**Protection of hands:**

Protective gloves

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

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

**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>White</i>
<b>Odour:</b>	<i>Solvent-like</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>Undetermined.</i>
<b>Boiling point/Boiling range:</b>	<i>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>&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>1.2 Vol %</i>
<b>Upper:</b>	<i>10.9 Vol %</i>



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<b>Vapour pressure at 20 °C (68 °F):</b>	3500 hPa (2625 mm Hg)
<b>Density at 20 °C (68 °F):</b>	0.879 g/cm <sup>3</sup> (7.335 lbs/gal)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not applicable.
<b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/ water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	61.3 %
<b>EU-VOC:</b>	539.0 g/l
<b>EU-VOC in %:</b>	61.32 %
<b>Solids content:</b>	37.9 %
<b>Other information</b>	No further relevant information available.

## 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 toxicological effects**

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

LD/LC50 values relevant for classification:		
123-86-4 n-butyl acetate		
Oral	LD50	10770 mg/kg (rat)
Dermal	LD50	>17600 mg/kg (rabbit)
Inhalative	LC50/4 h	>21.0 mg/m <sup>3</sup> (rat)
106-97-8 butane		
Inhalative	LC50/4 h	658000 mg/m <sup>3</sup> (rat)



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141-78-6 ethyl acetate		
Oral	LD50	5620 mg/kg (rabbit)
Dermal	LD50	>18000 mg/kg (rabbit)
Inhalative	LC50/4 h	1600 mg/m <sup>3</sup> (rat)
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2800 mg/kg (rabbit)
Inhalative	LC50/4 h	>193 mg/m <sup>3</sup> (rat)
	LC50 / 4h	23.3 mg/l (rat)
1330-20-7 xylene		
Oral	LD50	3523 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	22.1 mg/m <sup>3</sup> (rat)

**Primary irritant effect:**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

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

**STOT-single exposure**

May cause drowsiness or dizziness.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met

**12 – ECOLOGICAL INFORMATION**

**Toxicity**

<b>Aquatic toxicity:</b>	
<b>123-86-4 n-butyl acetate</b>	
EC50 / 48 h	44 mg/l (daphnia magna)
EC50 / 96 h	320 mg/l (algae)
LC50 / 24 h	205 mg/l (daphnia magna)
LC50 / 96 h	18 mg/l (Pimephales promelas)
<b>141-78-6 ethyl acetate</b>	
EC50 / 24 h	2500 mg/l (daphnia magna)
<b>Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics</b>	
LC50	127-159 mg/l (Leuciscus idus)





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<b>1330-20-7 xylene</b>	
EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50 / 96 h	13.5 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.

### **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	
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
15 01 04	metallic packaging

**Uncleaned packaging:**

**Recommendation:** Non contaminated packagings may be recycled

### **14- TRANSPORT INFORMATION**

**UN-Number**

ADR, IMDG, IATA

UN1950

**UN proper shipping name**

ADR

1950 AEROSOLS

IMDG

AEROSOLS

IATA

AEROSOLS, flammable



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**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

**Environmental hazards:** Not applicable.

**Special precautions for user**

Danger code (Kemler): Warning: Gases.

EMS Number: -

Stowage Code F-D,S-U

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.

**Transport in bulk according to Annex II of**

**MARPOL and the IBC Code** Not applicable.

**Transport/Additional information:**

ADR

Limited quantities (LQ) 1L

Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity



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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":** UN 1950 AEROSOLS, 2.1

### **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

**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.  
H226 Flammable liquid and vapour.  
H280 Contains gas under pressure; may explode if heated.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects

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.