

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

*Revision date: 13.05.2019*

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

**Product details**

**Trade name:** Aerosol Spray putty

**Article number:** 26701

**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:** PC9a Coatings and paints, thinners, paint removers

**Process category:**

PROC7 Industrial spraying

PROC11 Non industrial spraying

**Intended use:** Car refinishing Product/ Paint

**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

Eye Irrit. 2 H319 Causes serious eye irritation.

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

### Signal word: Danger

### Hazard-determining components of labelling:

acetone

n-butyl acetate

butan-1-ol

propan-2-ol

### Hazard statements

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

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful 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:

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.

Dangerous components:		
CAS: 67-64-1	acetone	20-25%
EINECS: 200-662-2		
Index number: 606-001-00-8	Flam. Liq. 2, H225	
Reg.nr.: 01-2119471330-49	Eye Irrit. 2, H319; STOT SE 3, H336	

CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	n-butyl acetate	12.5-<20%
	Flam. Liq. 3, H226 STOT SE 3, H336	
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37	dimethyl ether	12.5-<20%
	Flam. Gas 1, H220 Press. Gas C, H280	
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21	propane	5-<10%
	Flam. Gas 1, H220 Press. Gas C, H280	
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	butane (containing $\geq 0,1$ % butadiene (203-450-8))	2.5-<5%
	Flam. Gas 1, H220 Press. Gas C, H280	
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate	2.5-<5%
	Flam. Liq. 3, H226	
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	isobutane	2.5-<5%
	Flam. Gas 1, H220 Press. Gas C, H280	
CAS: 9004-70-0	cellulose nitrate	2.5-<5%
	Flam. Sol. 1, H228	
CAS: 71-36-3 EINECS: 200-751-6 Index number: 603-004-00-6 Reg.nr.: 01-2119484630-38	butan-1-ol	<2.5%
	Flam. Liq. 3, H226 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336	
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25	propan-2-ol	<2.5%
	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 7779-90-0 EINECS: 231-944-3 Index number: 030-011-00-6 Reg.nr.: 01-2119485044-40	trizinc bis(orthophosphate)	<1%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

**Additional information:** For the wording of the listed hazard 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. If symptoms persist, 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.

**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 MEASURE**

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

**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.

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

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:**

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**

**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>	
67-64-1 acetone	
WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
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
115-10-6 dimethyl ether	
WEL	Short-term value: 958 mg/m <sup>3</sup> , 500 ppm Long-term value: 766 mg/m <sup>3</sup> , 400 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)
108-65-6 2-methoxy-1-methylethyl acetate	
WEL	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
71-36-3 butan-1-ol	

WEL	Short-term value: 154 mg/m <sup>3</sup> , 50 ppm Sk
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

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

### Exposure controls

#### 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 eyes and skin.

Avoid contact with the eyes.

#### 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.

#### 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

#### 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

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

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

**Eye protection:** Tightly sealed goggles

## 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Appearance:</b>	
Form:	<i>Aerosol</i>
Colour:	<i>Beige</i>
Odour:	<i>Solvent-like</i>
Odour threshold:	<i>Not determined.</i>
pH-value:	<i>Not determined.</i>
<b>Change in condition</b>	
Melting point/freezing point:	<i>Undetermined.</i>
Initial boiling point and boiling range:	<i>Not applicable, as aerosol</i>
Flash point:	<i>&lt; 0 °C (&lt; 32 °F) Not applicable, as aerosol.</i>
Flammability (solid, gas):	<i>Not applicable.</i>
Ignition temperature:	<i>240 °C (464 °F)</i>
Decomposition temperature:	<i>Not determined.</i>
Auto-ignition temperature:	<i>Product is not selfigniting.</i>
Explosive properties:	<i>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</i>
<b>Explosion limits:</b>	
Lower:	<i>1.2 Vol %</i>
Upper:	<i>26.2 Vol %</i>
Vapour pressure at 20 °C (68 °F):	<i>4,000 hPa (3,000.2 mm Hg)</i>
Density at 20 °C (68 °F):	<i>0.85 g/cm<sup>3</sup> (7.09 lbs/gal)</i>
Relative density	<i>Not determined.</i>
Vapour density	<i>Not determined.</i>
Evaporation rate	<i>Not applicable.</i>
Solubility in / Miscibility with water:	<i>Not miscible or difficult to mix.</i>
Partition coefficient: n-octanol/water:	<i>Not determined.</i>
<b>Viscosity:</b>	
Dynamic:	<i>Not determined.</i>
Kinematic:	<i>Not determined.</i>
<b>Solvent content:</b>	
Organic solvents:	<i>79.6 %</i>
EU-VOC:	<i>677.6 g/l</i>
EU-VOC in %:	<i>79.58 %</i>
Water:	<i>0.4 %</i>
VOC (EC)	<i>---</i>
	<i>677.6 g/l</i>
VOC-EU%	<i>79.58 %</i>

<b>Solids content:</b>	19.8 %
<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:		
67-64-1 acetone		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>15,800 mg/kg (rabbit)
Inhalative	LC50 / 4 h	76 mg/l (rat)
123-86-4 n-butyl acetate		
Oral	LD50	10,800 mg/kg (rat)
Dermal	LD50	>17,600 mg/kg (rabbit)
Inhalative	LC50 / 4 h	1.85 mg/l (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,530 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>10,000 mg/m3 (rat)
71-36-3 butan-1-ol		
Oral	LD50	2,292 mg/kg (rat)
Dermal	LD50	3,430 mg/kg (rabbit)
67-63-0 propan-2-ol		
Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	13,900 mg/kg (rabbit)
Inhalative	LC50 / 4 h	>25 mg/l (rat)
		LC 50: 6h

**Primary irritant effect:**

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

**Serious eye damage/irritation:** Causes serious eye irritation.

**Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.

**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>	
67-64-1 acetone	
LC50/96h	8,300 mg/l (fish)
EC50/96h	7,200 mg/l (algae)
LC50 / 48 h	8,450 mg/l (crustacean (water flea))
123-86-4 n-butyl acetate	
LC50 / 96 h	81 mg/l (fish)
115-10-6 dimethyl ether	
EC50 / 96 h	155 mg/l (algae)
LC50 / 48 h	>4,000 mg/l (daphnia magna)
LC50 / 96 h	>4,000 mg/l (fish)
108-65-6 2-methoxy-1-methylethyl acetate	
EC50 / 48 h	>500 mg/l (daphnia magna)
LC50 / 96 h	100-180 mg/l (oncorhynchus mykiss / Regenbogenforelle)
71-36-3 butan-1-ol	
LC50 / 96 h	1,376 mg/l (fish)
67-63-0 propan-2-ol	
LC50/96h	9,640 mg/l (pimephales promelas; 96h)
LC50 / 24 h	9,714 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.

**Ecotoxical effects:**

**Remark:** Harmful to fish

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or

sewage system.

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 hazardous substances
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 not regulated

**Environmental hazards:** Not applicable.

**Special precautions for user** Warning: Gases.  
Danger code (Kemler): -  
EMS Number: F-D,S-U  
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.

**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  
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

## **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

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40

**National regulations:**

**Other regulations, limitations and prohibitive regulations**

<b>Substances of very high concern (SVHC) according to REACH, Article 57</b>
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None of the ingredients is listed.
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**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.

H228 Flammable solid.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very 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.