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

Revision date: 04.04.2016

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

**Product details**

**Trade name:** Zinc-Alu Spray

**Article number:** 26722

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

**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.



GHS09 environment

Aquatic Chronic 1 H411 Toxic to aquatic life with long lasting effects.



GHS07

Eye Irrit. 2 H319 Causes serious eye 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 CLP regulation.



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#### Hazard pictograms:



GHS02

GHS07

GHS09

**Signal word:** Danger

#### Hazard-determining components of labelling:

acetone

Hydrocarbons

#### Hazard statements

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

H319 Causes serious eye 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:

BEUH066 Repeated exposure may cause skin dryness or cracking.

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

#### Chemical characterization: Mixtures

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

Dangerous components:		
CAS: 115-10-6	dimethyl ether	25-<50%
EINECS: 204-065-8		
Index number: 603-019-00-8	Flam. Gas 1, H220;	
Reg.nr.: 01-2119472128-37	Press. Gas, H280	



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CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone	20-<25%
	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-001-01-9 Reg.nr.: 01-2119467174-37	zinc powder -zinc dust (stabilized)	5-<10%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
CAS: 64742-95-6 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons	5-<10%
	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336	
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4 Reg.nr.: 01-2119486773-24	Solvent naphtha (petroleum), light arom.	5-<10%
	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336	
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-001-00-6 Reg.nr.: 01-2119529243-45	aluminium powder (pyrophoric)	2.5-<5.0%
	Pyr. Sol. 1, H250; Water-react. 2, H261	
	xylene, mixture of isomers	2.5-<5.0%
	Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32	zinc oxide	≤ 0.5%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

#### **Additional information:**

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1 67/548 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 MEASURE**

##### **Description of first aid measures**

**General information:** Take affected persons out into the fresh air.



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**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. Cool containers with water.

**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:**

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

## **6- ACCIDENTAL RELEASE MEASURE**

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

Keep away from ignition sources.

Ensure adequate ventilation

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.

Do not allow product to reach sewage system or any water course.

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

Do not flush with water or aqueous cleansing agents.

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.



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## 7- HANDLING AND STORAGE

### **Precautions for safe handling**

Keep away from heat and direct sunlight.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

### **Information about fire - and explosion protection:**

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

### **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 pressurized containers.

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

#### **Further information about storage conditions:**

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

#### **Storage class: 2B**

**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>	
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
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
7429-90-5 aluminium powder (pyrophoric)	
WEL	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
xylene, mixture of isomers	
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



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<b>Ingredients with biological limit values:</b>	
xylene, mixture of isomers	
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:**

Do not eat, drink, smoke or sniff while working.  
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.

#### **Respiratory protection:**

Not necessary if room is well-ventilated.  
Otherwise, filter class A / P2 or self contained.  
Use suitable respiratory protective device in case of insufficient ventilation.

#### **Protection of hands:**

In case of contact with spray dust protective gloves made of butyl should be used (min. 0.4 mm thick), e.g. KCL Camatril, article no. 898 or similar products.

Protective gloves

Solvent resistant 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** Butyl rubber, BR

#### **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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Safety glasses

**Body protection:** Light weight protective clothing



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## 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>Light grey</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>Undetermined.</i>
<b>Boiling point/Boiling range:</b>	<i>Not applicable, as aerosol</i>
<b>Flash point:</b>	<i>Not applicable, as aerosol</i>
<b>Flammability (solid, gaseous):</b>	<i>Not applicable.</i>
<b>Ignition temperature:</b>	<i>235 °C.</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>In use, may form flammable/explosive vapour-air mixture.</i>
<b>Explosion limits:</b>	
<b>Lower:</b>	<i>2.6 Vol %</i>
<b>Upper:</b>	<i>18.6 Vol %</i>
<b>Vapour pressure at 20 °C:</b>	<i>5200 hPa.</i>
<b>Density at 20 °C:</b>	<i>0.89 g/cm<sup>3</sup></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>VOC- (EU)</b>	<i>---</i>
<b>VOC-EU%</b>	<i>714.7 g/l</i>
	<i>80.72 %</i>
<b>Solids content:</b>	<i>6.4 %</i>
<b>Other information</b>	<i>No further relevant information available.</i>



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## 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:**

<b>LD/LC50 values relevant for classification:</b>		
67-64-1 acetone		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
7440-66-6 zinc powder -zinc dust (stabilized)		
Oral	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	5.4 mg/l (rat)
64742-95-6 Solvent naphtha (petroleum), light arom.		
Oral	LD50	3592 mg/kg (rat) (ECD-Prüfrichtlinie401)
Dermal	LD50	>3160 mg/kg (rab) (OECD-Prüfrichtlinie 402)
Inhalative	LC50/4 h	>10.2 mg/l (rat)
1314-13-2 zinc oxide		
Oral	LD50	7950 mg/kg (mouse)

#### **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 sensitisation** 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.

May cause drowsiness or dizziness.





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**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>	
64742-95-6 Solvent naphtha (petroleum), light arom	
LC50/96h	>100 mg/l (Regenbogenforelle) (67/548/EWG Annex 5 C.1.)
EC50 / 48h	>100 mg/l (daphnia magna / Wasserfloh)
EC50/96h	19 mg/l (desmdesmus subspicatus / Grünalge)(OECD - Prüfrichtlinie 201)

**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	
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
15 01 04	metallic packaging
15 01 11*	metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers



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**Uncleaned packaging:**

**Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

**14- TRANSPORT INFORMATION**

**UN-Number**

ADR, IMDG, IATA UN1950

**UN proper shipping name**

ADR UN 1950 AEROSOLS , ENVIRONMENTALLY  
HAZARDOUS  
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

**Environmental hazards:**

Marine pollutant: Yes  
Special marking (ADR): Symbol (fish and tree)

**Special precautions for user**

Danger code (Kemler): -  
Warning: Gases.

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:



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<b>Segregation Code</b>	Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. 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.
<b>Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
<b>Transport category</b>	2
<b>Tunnel restriction code</b>	D
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	1L
<b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
<b>UN "Model Regulation":</b>	UN 1950 AEROSOLS , 2.1, ENVIRONMENTALLY HAZARDOUS

### **15 – REGULATORY INFORMATION**

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

**Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

**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.



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H250 Catches fire spontaneously if exposed to air.  
H261 In contact with water releases flammable gases.  
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.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
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.  
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.