

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

<u>1- IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE</u> <u>COMPANY/UNDERTAKING</u>

Product details

Trade name: Copper Spray Article number: 27011 Intended use: Car refinishing Product/ Lubricant 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)

<u>2 – HAZARDS IDENTIFICATION</u>

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.



STOT SE 3 H336 May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC F+; Extremely flammable R12: Extremely flammable. Chamäleon GmbH- Safety Data Sheet



N; Dangerous for the environment

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

R66-67: 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.

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:

pentane

Hazard statements

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

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.

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.



<u>3– COMPOSITION/INFORMATION ON INGREDIENTS</u>

Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components: CAS: 109-66-0 pentane 25-50% EINECS: 203-692-4 Xn R65 Index number: 601-006-00-1 F+ R12 Reg.nr.: 01-2119459286-30-xxxx N R51/53 R66-67 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H336 CAS: 74-98-6 12.5-20% propane EINECS: 200-827-9 F+ R12 Index number: 601-003-00-5 Flam. Gas 1, H220 Reg.nr.: 01-2119486944-21-xxxx Press. Gas, H280 CAS: 106-97-8 butane 10-12.5% EINECS: 203-448-7 F+ R12 Index number: 601-004-00-0 Flam. Gas 1, H220 Reg.nr.: 01-2119474691-32-xxxx Press. Gas, H280 CAS: 75-28-5 isobutane 10-12.5% EINECS: 200-857-2 F+R12Index number: 601-004-00-0 Flam. Gas 1, H220 Reg.nr.: 01-2119485395-27-xxxx Press. Gas, H280 CAS: 7440-50-8 2.5-5% copper EINECS: 231-159-6 substance with a Community workplace exposure Reg.nr.: 01-2119480154-42-xxxx limit CAS: 6869-42-3 Zinc alkyldithiophosphate 0.1-1% EINECS: 272-028-3 Xi R38-41 N R51/53 Eye Dam. 1, H318 Aquatic Chronic 2, H411 Skin Irrit. 2, H315

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

<u> 4– FIRST - AID MEASURE</u>

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.

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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.

<u>5– FIRE - FIGHTING MEASURE</u>

Extinguishing media

Suitable extinguishing agents: CO2, 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.
Reference to other sections
See Section 7 for information on safe handling.

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.

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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.

Speeme end use(3) to further relevant information available.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Ingredi	ents with limit values that require monitoring at the workplace:
109-66	-0 pentane
WEL	Long-term value: 1800 mg/m ³ , 600 ppm
106-97	-8 butane
WEL	Short-term value: 1810 mg/m ³ , 750 ppm
	Long-term value: 1450 mg/m ³ , 600 ppm
	Carc (if more than 0.1% of buta-1.3-diene)
7440-5	0-8 copper
WEL	Short-term value: 2** mg/m ³
	Long-term value: $0.2*1**$ mg/m ³
	*fume **dusts and mists (as Cu)
Additio	nal information . The lists valid during the making were used as basis

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	
Appearance:	
Form:	Aerosol
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
Flash point:	< 0 °C (< 32 °F)
	Not applicable, as aerosol.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	285 °C (545 °F)
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive
	air/vapour mixtures are possible.
Explosion limits:	
Lower:	1.4 Vol %
Upper:	10.9 Vol %
Vapour pressure at 20 °C (68 °F):	3500 hPa (2625 mm Hg)
Density at 20 °C (68 °F):	0.8056 g/cm ³ (6.723 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient	
(n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	70.5 %
EU-VOC:	568.0 g/l
EU-VOC in %:	70.50 %
Solids content:	19.5 %
Other information	No further relevant information available.
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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.

<u>11– TOXILOGICAL INFORMATION</u>

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:					
109-66-0 pentane					
LD50	>16000 mg/kg (rat)				
LD50	>2500 mg/kg (rat)				
	>5000 mg/kg (rabbit)				
LC50 / 4 h	>100 mg/m3 (rat)				
106-97-8 butane					
LC50 / 4 h	658000 mg/m3 (rat)				
	ne LD50 LD50 LC50 / 4 h e				

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: No irritating effect.

Sensitization: No sensitising effects known.

<u>12 – ECOLOGICAL INFORMATION</u>

Toxicity						
Aquatic toxicity:						
109-66-0 pentane						
EC50 / 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.

Ecotoxical 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.

<u>14– TRANSPORT INFORMATION</u>

UN-Number ADR, IMDG, IATA

UN 1950

UN proper shipping name ADR IMDG IATA

1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS AEROSOLS, flammable

Transport hazard class(es) ADR





Class Label	2 5F Gases. 2.1				
IMDG, IATA					
Class Label	2.1 2.1				
Packing group ADR, IMDG, IATA	Void				
Environmental hazards: Marine pollutant:	Product contains environmentally hazardous substances: pentane No				
Special precautions for user Danger code (Kemler): EMS Number:	Warning: Gases. - 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) Excepted quantities (EQ) Transport category Tunnel restriction code	1L Code: E0 Not permitted as Excepted Quantity 2 D				
IMDG Limited quantities (LQ) Excepted quantities (EQ) UN "Model Regulation":	1L Code: E0 Not permitted as Excepted Quantity UN1950, AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS				



<u>15 – REGULATORY INFORMATION</u>

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.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
R12 Extremely flammable.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic uncerted.

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.