

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

Revision date: 07.03.2023

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

**Product identifier****Trade name:** HS 2K Clear coat LOW VOC**Article number:** 11665, 11668**Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**Intended use:** Car refinishing Product/Clear coating material, Varnish**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**

flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child



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 GB CLP regulation.

#### Hazard pictograms



GHS02 GHS07 GHS08

Signal word Warning

#### Hazard-determining components of labelling:

5-methylhexan-2-one

n-Butyl acetate

2-Ethoxy-1-methylethyl acetate

2-Methoxy-1-methylethyl acetate

#### Hazard statements

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

#### 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

#### Mixtures

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

<b>Dangerous components:</b>		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-Butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	10-25%
CAS: 110-12-3 EINECS: 203-737-8 Reg.nr.: 01-2119472300-51	5-methylhexan-2-one Flam. Liq. 3, H226; Repr. 2, H361; Acute Tox. 4, H332	≥3-<10%
CAS: 54839-24-6 EINECS: 259-370-9 Reg.nr.: 01-2119475116-39	2-Ethoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	2.5-<10%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-Methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	<2.5%
EC number: 915-687-0 Reg.nr.: 01-2119491304-40	Reaction mass of pentamethyl-piperidyl sebacate Repr. 2, H361f; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1A, H317	≥0.25-<1%

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

### 4- FIRST - AID MEASURE

#### Description of first aid measures

**General information:** Immediately remove any clothing soiled by the product.

#### 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 rinse with water.

#### After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** If symptoms persist consult doctor.

**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:** 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**

Wear protective equipment. Keep unprotected persons away.

### **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:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

Open and handle receptacle with care.

Prevent formation of aerosols.

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Store away from foodstuffs.  
**Further information about storage conditions:** Keep container tightly sealed.  
**Storage class:** 3  
**Specific end use(s):** No further relevant information available.

## **8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **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
110-12-3 5-methylhexan-2-one	
WEL	Short-term value: 475 mg/m <sup>3</sup> , 100 ppm Long-term value: 95 mg/m <sup>3</sup> , 20 ppm Sk
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

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

### **Exposure controls**

**Appropriate engineering controls:** No further data; see item 7.

### **Individual protection measures, such as 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.  
 Store protective clothing separately.

#### **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.

#### **Hand protection:**

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

Protective gloves (EN 374)

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

#### **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.

**Eye/face protection:**

Tightly sealed goggles

**9 – PHYSICAL AND CHEMICAL PROPERTIES**

<b>Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Physical state:</b>	<i>Fluid</i>
<b>Colour:</b>	<i>According to product specification</i>
<b>Odour:</b>	<i>Characteristic</i>
<b>Odour threshold:</b>	<i>Not determined.</i>
<b>Melting point/freezing point:</b>	<i>Undetermined.</i>
<b>Boiling point or initial boiling point and boiling range</b>	<i>124-128 °C (123-86-4 n-Butyl acetate)</i>
<b>Flammability:</b>	<i>Flammable.</i>
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	<i>1.2 Vol %</i>
<b>Upper:</b>	<i>7.5 Vol %</i>
<b>Flash point:</b>	<i>27 °C (DIN EN ISO 1523:2002)</i>
<b>Ignition temperature:</b>	<i>370 °C (DIN 51794)</i>
<b>Decomposition temperature:</b>	<i>Not determined.</i>
<b>pH</b>	<i>Not determined.</i>
<b>Viscosity:</b>	
<b>Kinematic viscosity at 20 °C:</b>	<i>32-35 s (DIN 53211/4)</i>
<b>Dynamic:</b>	<i>Not determined.</i>
<b>Solubility</b>	
<b>water:</b>	<i>Not miscible or difficult to mix.</i>
<b>Partition coefficient n-octanol/water (log value)</b>	<i>Not determined.</i>
<b>Vapour pressure at 20 °C:</b>	<i>10.7 hPa</i>
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	<i>1.004 g/cm<sup>3</sup> (DIN EN ISO 2811-1)</i>
<b>Relative density</b>	<i>Not determined.</i>
<b>Vapour density</b>	<i>Not determined.</i>

### Other information

#### Appearance:

**Form:** *Fluid*

#### Important information on protection of health and environment, and on safety.

**Ignition temperature:** *Product is not selfigniting.*

**Explosive properties:** *Product is not explosive. However, formation of explosive air/vapour mixtures are possible*

#### Solvent content:

**VOC (EC)** *40.49 %*

**Solids content (weight-%):** *59.5 %*

#### Change in condition

**Evaporation rate** *Not determined.*

### Information with regard to physical hazard classes

<b>Explosives</b>	<i>Void</i>
<b>Flammable gases</b>	<i>Void</i>
<b>Aerosols</b>	<i>Void</i>
<b>Oxidising gases</b>	<i>Void</i>
<b>Gases under pressure</b>	<i>Void</i>
<b>Flammable liquids</b>	<i>Flammable liquid and vapour.</i>
<b>Flammable solids</b>	<i>Void</i>
<b>Self-reactive substances and mixtures</b>	<i>Void</i>
<b>Pyrophoric liquids</b>	<i>Void</i>
<b>Pyrophoric solids</b>	<i>Void</i>
<b>Self-heating substances and mixtures</b>	<i>Void</i>
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	<i>Void</i>
<b>Oxidising liquids</b>	<i>Void</i>
<b>Oxidising solids</b>	<i>Void</i>
<b>Organic peroxides</b>	<i>Void</i>
<b>Corrosive to metals</b>	<i>Void</i>
<b>Desensitised explosives</b>	<i>Void</i>

## 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:** Carbon monoxide.

### 11- TOXICOLOGICAL INFORMATION

**Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity:** Based on available data, the classification criteria are not met.  
**Respiratory or skin sensitization:** May cause an allergic skin reaction.  
**Reproductive toxicity:** Suspected of damaging fertility or the unborn child.  
**STOT-single exposure:** May cause drowsiness or dizziness.

**Information on other hazards**

Endocrine disrupting properties		
556-67-2	octamethylcyclotetrasiloxane	List II, III

### 12 – ECOLOGICAL INFORMATION

**Toxicity**

**Aquatic toxicity:** No further relevant information available.  
**Persistence and degradability** No further relevant information available.  
**Bioaccumulative potential** No further relevant information available.  
**Mobility in soil** No further relevant information available.  
**Results of PBT and vPvB assessment:**  
**PBT:** Not applicable.  
**vPvB:** Not applicable.  
**Endocrine disrupting properties:** For information on endocrine disrupting properties see section 11.

**Other adverse effects:**

**Remark:** Harmful to fish

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) : 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

### **13- DISPOSAL CONSIDERATION**

#### **Waste treatment methods**

#### **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### **Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

### **14- TRANSPORT INFORMATION**

#### **UN number or ID number**

ADR, IMDG, IATA UN1263

#### **UN proper shipping name**

ADR UN1263 PAINT  
IMDG, IATA PAINT

#### **Transport hazard class(es)**

#### **ADR**



Class 3 (F1) Flammable liquids.  
Label 3

#### **IMDG, IATA**



Class 3 Flammable liquids.  
Label 3

#### **Packing group**

ADR, IMDG, IATA III

#### **Environmental hazards:**

**Marine pollutant:** No

**Special precautions for user** Warning: Flammable liquids.  
Hazard identification number (Kemler code): 30  
EMS Number: F-E,S-E  
Stowage Category: A

**Maritime transport in bulk according to IMO instruments** Not applicable.

**Transport/Additional information:**

**ADR**

Limited quantities (LQ) 5L  
Transport category 3  
Tunnel restriction code D/E

**IMDG**

Limited quantities (LQ) 5L

**UN "Model Regulation":** UN 1263 PAINT, 3, III

**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:** P5c FLAMMABLE LIQUIDS

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

**National regulations:**

**Additional classification according to Decree on Hazardous Materials, Annex II:**

Class	Share in %
NK	25-50

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16-OTHER INFORMATION**

**Relevant phrases**

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- H361f Suspected of damaging fertility.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

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

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Repr. 2: Reproductive toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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.