

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

*Revision date: 13.09.2021*

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

**Product details**

**Trade name: 2K All in one primer 4:1**

**Article number: 14664**

**Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

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

**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 – HAZARD(S) IDENTIFICATION**

**Classification of the substance or mixture**

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



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.

**Label elements**

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

The product is classified and labelled according to the CLP regulation

**Hazard pictograms**



GHS02

**Signal word** Warning

**Hazard statements**

H226 Flammable liquid and vapor.

**Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P242 Use non-sparking tools.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P403+P235 Store in a well-ventilated place. Keep cool.

**Additional information:**

EUH208 Contains dibutyltin dilaurate. May produce an allergic reaction.

**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 the 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	<15%
	Flam. Liq. 3, H226; STOT SE 3, H336	
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	Xylene	5-<10%
	Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene	<2.5%
	Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-Methoxy-1-methylethyl acetate	<2.5%
	Flam. Liq. 3, H226; STOT SE 3, H336	
CAS: 77-58-7 EINECS: 201-039-8 Reg.nr.: 01-2119496068-27	dibutyltin dilaurate	≥0.1-<0.25%
	Muta. 2, H341; Repr. 1B, H360FD; STOT SE 1, H370; STOT RE 1, H372; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	

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

#### **4- FIRST - AID MEASURES**

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

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

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

##### **After skin contact:**

Generally the product does not irritate the skin.

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.

##### **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.

**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 MEASURES**

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

Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:** 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:**

No special measures required.

No special precautions are necessary if used correctly.

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

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:** 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**

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

<b>Components 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
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
100-41-4 ethylbenzene	
WEL	Short-term value: 552 mg/m <sup>3</sup> , 125 ppm Long-term value: 441 mg/m <sup>3</sup> , 100 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
77-58-7 dibutyltin dilaurate	
WEL	Short-term value: 0.2 mg/m <sup>3</sup> Long-term value: 0.1 mg/m <sup>3</sup>

	as Sn; Sk
<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

Wash hands before breaks and at the end of work.

**Respiratory protection:** Use suitable respiratory protective device only when aerosol or mist is formed.

**Protection of hands:**

Protective gloves (EN 374)

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.

**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>	
<b>Form:</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>pH-value:</b>	<i>Not determined.</i>
<b>Change in condition</b>	
<b>Melting point/freezing point:</b>	<i>Undetermined.</i>
<b>Initial boiling point and boiling range:</b>	<i>124-128 °C</i>

<b>Flash point:</b>	24 °C (DIN EN ISO 1523:2002)
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Ignition temperature:</b>	>350°C (DIN 51794)
<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Explosion limits:</b>	
<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	7.5 Vol %
<b>Vapor pressure at 20 °C:</b>	<15 hPa
<b>Density at 20°C:</b>	1.593 g/cm <sup>3</sup> (DIN EN ISO 2811-1)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<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 at 20 °C:</b>	>60 s (ISO 6 mm)
<b>Solvent content:</b>	
<b>VOC (EC)</b>	23.46 %
<b>Solids content (weight-%): Other information:</b>	76.3 % 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:** Carbon monoxide.

## 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:**

1330-20-7 Xylene

Oral	LD50	5,251 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	29 mg/l (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** Based on available data, the classification criteria are not met.

#### **Additional toxicological information:**

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

**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

**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.

#### **Additional ecological information:**

#### **General notes:**

Water hazard class 2 (German Regulation): 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.

#### **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

#### Uncleaned packaging:

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

### 14- TRANSPORT INFORMATION

#### UN-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
<b>Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>Special precautions for user</b>	Warning: Flammable liquids.
<b>Danger code (Kemler):</b>	30
<b>EMS Number:</b>	F-E, <u>S-E</u>
<b>Stowage Category</b>	A
<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>Transport category</b>	3
<b>Tunnel restriction code</b>	D/E
<b>Remarks:</b>	≤ 450 l: 2.2.3.1.5 ADR
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Remarks:</b>	≤ 30 l: 2.2.3.5 IMDG-Code
<b>UN "Model Regulation":</b>	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

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 20

<b>Regulation (EU) No 649/2012</b>		
77-58-7	dibutyltin dilaurate	Annex I Part 1

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

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

Class	Share in %
NK	≥10-<25

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

**16-OTHER INFORMATION****Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H341 Suspected of causing genetic defects.

H360FD May damage fertility. May damage the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

**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 européen sur le transport 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)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity - dermal – Category 4  
Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
Muta. 2: Germ cell mutagenicity – Category 2  
Repr. 1B: Reproductive toxicity – Category 1B  
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1  
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.