

SAFETY DATA SHEET
according to UK REACH

Revision date: 21.03.2025

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/ UNDERTAKING**Product details****Trade name:** 2K Top coat**Article number:** 51XXX**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**

flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



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

Signal word Warning

Hazard-determining components of labelling:

n-Butyl acetate

Maleic anhydride

2-Methoxy-1-methylethyl acetate

Hydrocarbons, C9, aromatics

Hazard statements

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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.

Dangerous components:		
CAS: 123-86-4	n-Butyl acetate	≤20%

EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	
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	10-25%
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics. Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336, EUH066	5-<10%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	Xylene 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	2.5-<5%
CAS: 112-07-2 EINECS: 203-933-3 Reg.nr.: 01-2119475112-47	2-Butoxyethyl acetate Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	2.5-<5%
CAS: 26761-45-5 EINECS: 247-979-2 Reg.nr.: 01-2119431597-33	2,3-Epoxypropyl neodecanoate Muta. 2, H341; Aquatic Chronic 2, H411; Skin Sens. 1, H317	≥0.25-<1%
CAS: 108-31-6 EINECS: 203-571-6 Reg.nr.: 01-2119472428-31	Maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001%	≥0.001- <0.1%

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.

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: 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:

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 section 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:

VAT NO. / UST-ID NR.: DE231468544
EORI NO. / EORI NR.: DE6029442
CEO / GESCHÄFTSFÜHRER: SASCHA HAGEMANN
TRADE REGISTER NO. / HANDELSREGISTER NR.: AMTSGERICHT MANNHEIM HRB 9778
Chamäleon GmbH – Technical Data Sheet

BANK: HEIDELBERGER VOLKSBANK EG
IBAN: DE78 6729 0000 0042 8627 03
BIC: GENODE61HD

■ Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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

Ingredients with limit values that require monitoring at the workplace:		
123-86-4 n-Butyl acetate		
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm	
108-65-6 2-Methoxy-1-methylethyl acetate		
WEL	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk	
1330-20-7 Xylene		
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV	
112-07-2 2-Butoxyethyl acetate		
WEL	Short-term value: 332 mg/m³, 50 ppm Long-term value: 133 mg/m³, 20 ppm Sk	
108-31-6 Maleic anhydride		
WEL	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ Sen	
DNELs		
123-86-4 n-Butyl acetate		
Dermal	DNEL	6 mg/kg (general population) 11 mg/kg (Arbeiter)

Inhalative	DNEL	300 mg/m ³ (general population) 600 mg/m ³ (Arbeiter)
1 330-20-7 Xylene		
Dermal	DNEL	212 mg/kg (Arbeiter)
Inhalative	DNEL	221 mg/m ³ (Arbeiter)
1 12-07-2 2-Butoxyethyl acetate		
Dermal	DNEL	169 mg/kg (Arbeiter)
Inhalative	DNEL	133 mg/m ³ (Arbeiter)
26761-45-5 2,3-Epoxypropyl neodecanoate		
Dermal	DNEL	0.7 mg/kg (general population) 1.4 mg/kg (Arbeiter)
Inhalative	DNEL	1 mg/m ³ (general population) 1.965 mg/m ³ (Arbeiter)
Ingredients with biological limit values:		
1 330-20-7 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

Appropriate engineering controls: No further data; see section 7.

Individual protection measures, such as 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:

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:

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

Information on basic physical and chemical properties

General Information

Physical state

Colour:

Odour:

Odour threshold:

Melting point/freezing point:

Boiling point or initial boiling point and

boiling range:

Flammability:

Lower and upper explosion limit

Lower:

Upper:

Flash point:

Auto-ignition temperature:

Decomposition temperature:

pH:

Viscosity:

Kinematic viscosity at 20 °C:

Dynamic:

Solubility

water:

Partition coefficient n-octanol/water (log value):

Vapour pressure at 20 °C:

Vapour pressure at 50 °C:

Density and/or relative density

Density at 20 °C:

Relative density

Vapour density

Other information

Appearance:

Form:

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

Ignition temperature:

Explosive properties:

Fluid

According to product specification

Characteristic

Not determined.

Undetermined.

124-128 °C (123-86-4 n-Butyl acetate)

Flammable.

1.2 Vol % (123-86-4 n-Butyl acetate)

10.8 Vol % (108-65-6 2-Methoxy-1-methylethyl acetate))

29 °C (DIN EN ISO 1523:2002)

315 °C (DIN 51794, 108-65-6 2-Methoxy-1-methylethyl acetate)

Not determined.

Not determined.

90-110 s (DIN 53211/4)

Not determined.

Not miscible or difficult to mix.

Not determined.

10.7 hPa (123-86-4 n-Butyl acetate)

55 hPa

1.118 g/cm³ (DIN EN ISO 2811-1)

Not determined.

Not determined.

Fluid

Product is not selfigniting.

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Solvent content:	
VOC (EC)	41.31 %
Solids content (weight-%):	58.7 %
Change in condition	
Evaporation rate:	Not determined.
Information with regard to physical hazard classes	
Explosives:	Void
Flammable gases:	Void
Aerosols:	Void
Oxidising gases:	Void
Gases under pressure:	Void
Flammable liquids:	Flammable liquid and vapour.
Flammable solids:	Void
Self-reactive substances and mixtures:	Void
Pyrophoric liquids:	Void
Pyrophoric solids:	Void
Self-heating substances and mixtures:	Void
Substances and mixtures, which emit flammable gases in contact with water:	Void
Oxidising liquids:	Void
Oxidising solids:	Void
Organic peroxides:	Void
Corrosive to metals:	Void
Desensitised explosives:	Void

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.

LD/LC50 values relevant for classification:		
123-86-4 n-Butyl acetate		
Oral	LD50	13,100 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
108-65-6 2-Methoxy-1-methylethyl acetate		
Oral	LD50	8,532 mg/kg (rat)
64742-95-6 Hydrocarbons, C9, aromatics		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
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)
112-07-2 2-Butoxyethyl acetate		
Oral	LD50	1,880 mg/kg (rat)
Dermal	LD50	1,480 mg/kg (rabbit)
26761-45-5 2,3-Epoxypropyl neodecanoate		
Oral	LD50	>9,600 mg/kg (rat)
Dermal	LD50	>3,800 mg/kg (rabbit)
108-31-6 Maleic anhydride		
Oral	LD50	1,090 mg/kg (rat)
Dermal	LD50	2,620 mg/kg (rabbit)

Respiratory or skin sensitisation May cause an allergic skin reaction.

STOT-single exposure May cause drowsiness or dizziness.

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 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.

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

CHAMÄLEON GMBH / RUDOLF-DIESEL-STRASSE 8A / 69115 HEIDELBERG / GERMANY

CHAMÄLEON GMBH
RUDOLF-DIESEL-STRASSE 8A
69115 HEIDELBERG
GERMANY

FON 0049 (0) 6221 - 520 440
FAX 0049 (0) 6221 - 520 449
MAIL INFO@CHAMAELEON-PRODUKTION.DE
WEB WWW.CHAMAELEON-PRODUKTION.DE



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
Remarks: ≤ 450 l: 2.2.3.1.5 ADR
IMDG
Limited quantities (LQ) 5L
Remarks: ≤ 450 l: 2.3.2.5 IMDG-Code
UN "Model Regulation": UN 1263 PAINT, 3, III

1.5 – REGULATORY INFORMATION

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

Poisons Act

Regulated explosives precursors
None of the ingredients is listed.
Regulated poisons
None of the ingredients is listed.
Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

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 %
I	<1
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.

H302 Harmful if swallowed.

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.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H341 Suspected of causing genetic defects.

H372 Causes damage to organs through prolonged or repeated exposure.

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

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH071 Corrosive to the respiratory tract.

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:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the

International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

DNEL: Derived No-Effect Level (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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 Corr. 1B: Skin corrosion/irritation – Category 1B

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

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

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

Muta. 2: Germ cell mutagenicity – Category 2

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 Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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.