

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

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

Revision date: 31.10.2024

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

Product details Trade name: Hardener for 466 All in one primer Article number: 12663 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Intended use: Car refinishing Product/ Hardening agent/ Curing agent 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



Flam. Liq. 3 H226 Flammable liquid and vapour.



Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness. Label elements Labelling according to Regulation (EC) No 1272/2008





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The product is classified and labelled according to the GB CLP regulation. Hazard pictograms



Signal word Warning

Hazard-determining components of labelling:

Hexamethylene diisocyanate, oligomers

n-Butyl acetate

2-Methoxy-1-methylethyl acetate

Hazard statements

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

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.

EUH204 Contains isocyanates. May produce an allergic reaction.

Restricted to professional users.

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.

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Dangerous components:		
CAS: 123-86-4	n-Butyl acetate	50-100%
EINECS: 204-658-1	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	
Reg.nr.: 01-2119485493-29		
CAS: 28182-81-2	Hexamethylene diisocyanate, oligomers	25-50%
NLP: 500-060-2	Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335,	
Reg.nr.: 01-2119485796-17	EUH204	
CAS: 108-65-6	2-Methoxy-1-methylethyl acetate	2.5-<10%
EINECS: 203-603-9	Flam. Liq. 3, H226; STOT SE 3, H336	
Reg.nr.: 01-2119475791-29		
CAS: 112-07-2	2-Butoxyethyl acetate	2.5-<5%
EINECS: 203-933-3	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4,	
Reg.nr.: 01-2119475112-47	H332	

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.

In case of irregular breathing or respiratory arrest provide artificial respiration.

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.



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For safety reasons unsuitable extinguishing agents: Water with full jet Special hazards arising from the substance or mixture: In case of fire, the following can be released: Nitrogen oxides (NOx) Carbon monoxide (CO) Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Mouth respiratory protective device.

6- ACCIDENTAL RELEASE MEASURE

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 section 13. Ensure adequate ventilation. Contain and collect spillages with non-combustible absorbent materials (e.g. sand, earth, diatomaceous earth) and place in a suitable container. Decontaminate immediately with suitable mixture (flammable): - as such usable (inflammatory!): water 45 Vol.% ethanol or isopropanol 50 Vol.% ammonia solution (Density= 0.88) 5 Vol.% - alternatively (non-flammable): sodium carbonate 5 Vol.% water 95 Vol.% Add the same decontaminant to any residues and allow to stand for several days in an non-sealed container until no further reaction occurs. Once this stage is reached, close the container and dispose of in accordance with the waste regulations (see Section 13). 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:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Persons with a history of asthma, allergies or chronic or recurrent respiratory diseases should only be employed in processes in which this product is used under appropriate medical supervision.

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:

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

Store away from foodstuffs.

Further information about storage conditions:

Keep container tightly sealed.

Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohol and water.

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-	123-86-4 n-Butyl acetate		
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm		
28182-81-2 Hexamethylene diisocyanate, oligomers			
EBW	Short-term value: 0.5 mg/m³ exposition evaluation valu TRGS 430 (EBW)		
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		
112-07-2 2-Butoxyethyl acetate			
WEL	Short-term value: 332 mg/m³, 50 ppm		



Long-term value: 133 mg/m³, 20 ppm

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Sk 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 All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations. 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

<u>9 – PHYSICAL AND CHEMICAL PROPERTIES</u>

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

Fluid According to product specification Characteristic Not determined. Undetermined.

124-128 °C (123-86-4 n-Butyl acetate) Flammable.



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Lower:	1.2 Vol % (123-86-4 n-Butyl acetate)
Upper:	7.5 Vol % (123-86-4 n-Butyl acetate)
Flash point:	27 °C (DIN EN ISO 1523:2002)
Auto-ignition temperature:	315 °C (DIN 51794, 108-65-6 2-Methoxy-
	1-methylethyl acetate)
Decomposition temperature:	Not determined.
pH:	Not determined.
Viscosity:	
Kinematic viscosity at 20 °C:	10-15 s (DIN 53211/4)
ý Dynamic:	Not determined
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure at 20 °C:	10.7 hPa (123-86-4 n-Butyl acetate)
Vapour pressure at 50 °C:	55 hPa
Density and/or relative density	
Density at 20 °C:	0.974 g/cm³ (DIN EN ISO 2811-1)
Relative density	Not determined.
Vapour density	Not determined.
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)	63.92 %
Solids content (weight-%):	36.1 %
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

VAT NO. / UST-ID NR.: DE231468544 EORI NO. / EORI NR.: DE6029442 CEO / GESCHÄFTSFÜHRER: SASCHA HAGEMANN TRADE REGISTER NO. / HANDELSREGISTER NR.: AMTSGERICHT MANNHEIM HRB 9778



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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	
Öxidising 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:

Possible in traces. Nitrogen oxides Hydrogen chloride (HCl) Hydrogen cyanide (prussic acid) Carbon monoxide Nitrogen oxides (NOx)

<u>11– TOXILOGICAL INFORMATION</u>

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



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Oral	LD50	13,100 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

Respiratory or skin sensitisation May cause an allergic skin reaction.

STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

Information on other hazards

Endocrine disrupting properties None of the ingredients is listed.

<u>12 – ECOLOGICAL INFORMATION</u>

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: The product does not contain substances with endocrine disrupting properties. Other adverse effects 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.

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: Packagings that may not be cleansed are to be disposed of in the same manner as the product.



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14- TRANSPORT INFORMATION

UN number or ID number ADR, IMDG, IATA

UN1263

UN proper shipping name ADR IMDG, IATA

UN1263 PAINT RELATED MATERIAL PAINT RELATED MATERIAL

Transport hazard class(es) ADR



Class Label

3 (F1) Flammable liquids.. 3

3 Flammable liquids.

IMDG, IATA



Packing group ADR, IMDG, IATA Ш

3

Environmental hazards: Not applicable. 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

Chamäleon GmbH – Technical Data Sheet



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IMDG Limited quantities (LQ)

5L

UN "Model Regulation":

UN 1263 PAINT RELATED MATERIAL, 3, III

15 - 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	
NUMBER OF AN AND A STREET AND A ST	ale e te see alterna te litar al

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 5000 t Qualifying quantity (tonnes) for the application of upper-tier requirements 50000 t National regulations:

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

Class	Share in %
I	<1
NK	50-100
	- •

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. H312 Harmful in contact with skin.



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H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. EUH066 Repeated exposure may cause skin dryness or cracking. EUH204 Contains isocyanates. May produce an allergic reaction. 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Lig. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - 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.