



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

 FON
 0049 (0) 6221 - 520 440

 FAX
 0049 (0) 6221 - 520 449

 Mall
 INFO@CHAMAELEON-PRODUKTION.DE

 WEB
 WWW.CHAMAELEON-PRODUKTION.DE

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

Revision date: 13.09.2023

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

Product details Trade name: Hardener for 488/444 Acrylic primer Article number: 12881, 12883, 12884, 12885, 12886 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)

# <u>2 – HAZARDS IDENTIFICATION</u>

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 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
Label elements
Labelling according to Regulation (EC) No 1272/2008

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





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#### Hazard pictograms



GHS02 GHS07

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.

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

#### **Chemical characterization: Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

## **Dangerous components:**



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

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

#### <u> 4– FIRST - AID MEASURE</u>

#### **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. 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.

## <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.





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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.

# 7-HANDLING AND STORAGE





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## 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-Buty	123-86-4 n-Butyl acetate		
WEL	WEL Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm		
28182-81-2 Hexamethylene diisocyanate, oligomers			
EBW	Short-term value: 0.5 mg/m <sup>3</sup> exposition evaluation valu TRGS 430 (EBW)		
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		
112-07-2 2-Butoxyethyl acetate			





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# WEL Short-term value: 332 mg/m<sup>3</sup>, 50 ppm Long-term value: 133 mg/m<sup>3</sup>, 20 ppm 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 protection: Tightly sealed goggles

## 9- PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical General Information	and chemical properties
Physical state:	Fluid
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling po boiling range	int and 124-128 °C (123-86-4 n-Butyl acetate)
Flammability	Flammable
Lower and upper explosion limit	

STEUERNUMMER/TAX NR.: DE 231468544 EORI NR./CUSTOMS NR.: DE 6029442 / HRB 9778 GESCHÄFTSFÜHRER/CEO: SASCHA HAGEMANN



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Upper:         7.5 Vol %           Flash point:         27 °C (DIN EN ISO 1523:2002)	
Auto-ignition temperature:315 °C (DIN 51794)	
<b>Decomposition temperature:</b> Not determined.	
pH Not determined.	
Viscosity:	
Kinematic viscosity at 20 °C 10-15 s (DIN 53211/4)	
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	
Vapour pressure at 50 °C:55 hPa	
Density and/or relative density	
<b>Density at 20 °C:</b> 0.974 g/cm <sup>3</sup> (DIN EN ISO 2811-1)	
Relative densityNot determined.	
Vapour density     Not determined.	
9.2 Other information	
Appearance:	
Form: Fluid	
Important information on protection of health and environment, and on safety.	
Ignition temperature:Product is not selfigniting.	
<b>Explosive properties:</b> Product is not explosive. However, format explosive air/vapour mixtures are possible.	ion of
Solvent content:	
<b>VOC (EC)</b> 63.92 %	
Solids content (weight-%):36.1 %	
Change in condition	
Evaporation rateNot determined.	
Information with regard to physical hazard classes	
Explosives   Void	
Flammable gasesVoid	
Aerosols     Void	
Oxidising gases Void	





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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:

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:



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123	123-86-4 n-Butyl acetate		
Ora	al		13,100 mg/kg (rat)
De	ermal		>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.

## <u>12 – ECOLOGICAL INFORMATION</u>

Toxicity Aquatic toxic

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 und

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.

## <u>14– TRANSPORT INFORMATION</u>

## **UN-Number or ID-number**

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# ADR, IMDG, IATA

UN1263

**UN1263 PAINT RELATED MATERIAL** 

PAINT RELATED MATERIAL

3 (F1) Flammable liquids.

3 Flammable liquids.

**UN proper shipping name** ADR IMDG, IATA

# Transport hazard class(es) ADR



Class Label

## IMDG, IATA



Class Label

**Packing group** ADR, IMDG, IATA

III

3

3

**Environmental hazards:** Not applicable.

Special precautions for userWarning: Flammable liquids.Hazard identification number (Kemler code): 30EMS Number:F-E,S-EStowage CategoryA

# 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





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Limited quantities (LQ) Remarks:

#### 5L ≤ 5 1: 2.2.3.1.5 IMDG

**UN "Model Regulation":** 

UN 1263 PAINT RELATED MATERIAL, 3, III

# <u>15 – REGULATORY INFORMATION</u>

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	50-100

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

## **<u>16-OTHER INFORMATION</u>**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

## **Relevant phrases**

H226 Flammable liquid and vapour.

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- 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:





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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. Liq. 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.