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***SAFETY DATA SHEET***  
***according to 1907/2006/EC, Article 31***    *Revision: 05.10.2016*

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

**Product details**

**Trade name:** MS Clear Coat

**Article number:** 11335, 11338

**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**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335-H336 May cause respiratory irritation. 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 CLP regulation.

### Hazard pictograms



GHS02

GHS07

GHS08

**Signal word** Warning

### Hazard-determining components of labelling:

xylene

n-butyl acetate

Solvent naphtha (petroleum), light arom.

Ethylbenzene

### Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

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

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

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 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 substances listed below with nonhazardous additions.



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<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	10-≤ 20%
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	10-≤ 20%
CAS: 64742-95-6 918-668-5 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	10-≤ 20%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	2.5-<10%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	Ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	2.5-<10%
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	0.1-≤ 5%
919-857-5 Reg.nr.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336	0.1-<2.5%
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	0.1-<1%
915-687-0 Reg.nr.: 01-2119491304-40	Reaction mass of pentamethyl-piperidyl sebacate Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens.1A, H317	0.1-<1%

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

#### **4- FIRST - AID MEASURE**

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

##### **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.



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**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

**After eye contact:** Rinse opened eye for several minutes under running water.

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

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available

**Information for doctor:**

**5- FIRE - FIGHTING MEASURE**

**Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

**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:** 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 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.

Do not flush with water or aqueous cleansing agents.

**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.

**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**

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

**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
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
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
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
112-07-2 2-butoxyethyl acetate	
WEL	Short-term value: 332 mg/m <sup>3</sup> , 50 ppm Long-term value: 133 mg/m <sup>3</sup> , 20 ppm Sk



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<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:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**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:**

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

**Breakthrough time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**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>



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<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	<i>Undetermined.</i>
<b>Boiling point/Boiling range:</b>	<i>124 °C</i>
<b>Flash point:</b>	<i>30 °C (DIN EN ISO 1523:2002)</i>
<b>Flammability (solid, gaseous):</b>	<i>Not applicable.</i>
<b>Ignition temperature:</b>	<i>315°C (DIN 51794)</i>
<b>Decomposition temperature:</b>	<i>Not determined.</i>
<b>Self-igniting:</b>	<i>Product is not selfigniting.</i>
<b>Danger of explosion:</b>	<i>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</i>
<b>Explosion limits:</b>	
<b>Lower:</b>	<i>0.7 Vol %</i>
<b>Upper:</b>	<i>7.5 Vol %</i>
<b>Vapour pressure at 20 °C:</b>	<i>10.7 hPa</i>
<b>Density at 20 °C:</b>	<i>0.975 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>
<b>Evaporation rate</b>	<i>Not determined.</i>
<b>Solubility in / Miscibility with water:</b>	<i>Not miscible or difficult to mix.</i>
<b>Partition coefficient (n-octanol/water):</b> <i>Not determined.</i>	
<b>Viscosity:</b>	
<b>Dynamic:</b>	<i>Not determined.</i>
<b>Kinematic at 20 °C:</b>	<i>25 s (DIN 53211/4)</i>
<b>Solvent content:</b>	
<b>VOC- (EC)</b>	<i>59.05 %</i>
<b>Solids content (weight-%):</b>	<i>41.0 %</i>
<b>Other information</b>	<i>No further relevant information available.</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



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## 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	5251 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)
Inhalative	LC50/4 h (Dämpfe)	29 mg/l (rat)
64742-95-6 Solvent naphtha (petroleum), light arom.		
Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rab)

### Primary irritant effect:

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

### 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

May cause respiratory irritation. May cause drowsiness or dizziness.

### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**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.

### Ecotoxicological 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.





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Harmful to aquatic organisms.

**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.

<b>European waste catalogue</b>	
08 01 11*	waste paint and varnish containing organic solvents or other dangerous 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, special provision 640E  
IMDG PAINT  
IATA Paint

**Transport hazard class(es)**

ADR



Class 3 (F1) Flammable liquids.  
Label 3

IMDG, IATA





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Class 3 Flammable liquids.  
Label 3

**Packing group**  
ADR, IMDG, IATA III

**Environmental hazards:**  
Marine pollutant: No

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

**Transport in bulk according to Annex II of MARPOL and the IBC Code** Not applicable.

**Transport/Additional information:**  
**ADR**  
Transport category 3  
Tunnel restriction code D/E

**IMDG**  
Limited quantities (LQ) 5L

**UN "Model Regulation":** UN 1263 PAINT, SPECIAL PROVISION 640E, 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:**

Class	Share in %
NK	50-100

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



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## **16-OTHER INFORMATION**

### **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- 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.
- 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.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

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.