



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 02.06.2015

Version number 3

Revision: 02.06.2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
- Trade name: **KRISTAL UHS Clear Coat 93 2:1 MATT eXcellent**
- Article number: 9310M
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.
- Application of the substance / the mixture Lacquer
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:  
Kristal Coatings B.V.  
Platinawerf 22B  
6641 TL Beuningen - Holland  
Tel: 0031 24 67 526 36  
Fax: 0031 24 67 533 60
- Further information obtainable from: Product safety department: info@kristalcoatings.nl
- 1.4 Emergency telephone number:  
National Poisoning Information Centre - Bilthoven - The Netherlands  
T +31 (0)30 274 88 88  
Restricted to physicians for information on ingredients.

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3      H226 Flammable liquid and vapour.



GHS07

Eye Irrit. 2      H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- 2.2 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

- Signal word Warning
- Hazard statements  
H226 Flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements  
P280      Wear protective gloves/protective clothing/eye protection/face protection.  
P260      Do not breathe mist/vapours/spray.  
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.  
P403+P235      Store in a well-ventilated place. Keep cool.  
P501      Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information:  
EUH066 Repeated exposure may cause skin dryness or cracking.  
EUH208 Contains Reaction mass of pentamethylpiperidyl sebacat, Derivative of Benzotriazol. May produce an allergic reaction.  
Restricted to professional users.

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- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous components:

CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	10-25%
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 01-2119473980-30	4-methylpentan-2-one ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	2,5-10%
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H332; STOT SE 3, H335-H336	2,5-10%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32 01-2119486136-34 01-2119555267-33	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; Aquatic Chronic 3, H412	2,5-10%
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	2,5-10%
CAS: 110-43-0 EINECS: 203-767-1	heptan-2-one ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H336	2,5-10%
ELINCS: 400-830-7 Reg.nr.: 01-0000015075-76	Derivative of Benzotriazol ⚠ Acute Tox. 3, H331; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	0,5-2,5%
Reg.nr.: 01-2119491304-40	Reaction mass of pentamethylpiperidyl sebacat ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	0,5-2,5%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light aromatic ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H332; STOT SE 3, H335-H336	≤ 0,5%

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

### SECTION 4: First aid measures

- 4.1 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: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:  
Rinse opened eye for several minutes under running water. Then consult a doctor.  
Remove contactlenses.
- After swallowing:  
Do not induce vomiting; call for medical help immediately.  
Rinse out mouth and then drink plenty of water.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

### SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO2 or powder. Fight larger fights with alcohol resistant foam.

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- For safety reasons unsuitable extinguishing agents: Water with full jet
  - 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO)
  - 5.3 Advice for firefighters
  - Protective equipment: Wear self-contained respiratory protective device.
- 

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.
  - 6.2 Environmental precautions:  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
  - 6.3 Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
  - 6.4 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.
- 

### SECTION 7: Handling and storage

- 7.1 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.
  - 7.2 Conditions for safe storage, including any incompatibilities
  - Storage:  
Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
  - Information about storage in one common storage facility: Store away from oxidising agents.
  - Further information about storage conditions: Keep container tightly sealed.
  - Storage class: 3
  - 7.3 Specific end use(s) No further relevant information available.
- 

### SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

#### 108-10-1 4-methylpentan-2-one

IOELV Short-term value: 208 mg/m<sup>3</sup>, 50 ppm  
Long-term value: 83 mg/m<sup>3</sup>, 20 ppm

#### 1330-20-7 xylene

IOELV Short-term value: 442 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 221 mg/m<sup>3</sup>, 50 ppm  
Skin

#### 110-43-0 heptan-2-one

IOELV Short-term value: 475 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 238 mg/m<sup>3</sup>, 50 ppm  
Skin

- DNELs

#### 123-86-4 n-butyl acetate

Inhalative Acute - short-term exposure - local effects	960 mg/m <sup>3</sup> (worker)
Acute - short-term exposure - systemic effects	960 mg/m <sup>3</sup> (worker)
Long-term exposure - local effects	480 mg/m <sup>3</sup> (worker)
Long-term exposure - systemic effects	480 mg/m <sup>3</sup> (worker)

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**108-10-1 4-methylpentan-2-one**

Dermal	Long-term exposure - systemic effects	11,8 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - local effects	208 mg/m <sup>3</sup> (worker)
	Acute - short-term exposure - systemic effects	208 mg/m <sup>3</sup> (worker)
	Long-term exposure - local effects	83 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	83 mg/m <sup>3</sup> (worker)

**1330-20-7 xylene**

Dermal	Long-term exposure - systemic effects	180 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - local effects	289 mg/m <sup>3</sup> (worker)
	Acute - short-term exposure - systemic effects	289 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	77 mg/m <sup>3</sup> (worker)

**64742-95-6 Hydrocarbons, C9, aromatics**

Dermal	Long-term exposure - systemic effects	25 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	150 mg/m <sup>3</sup> (wki)

**110-43-0 heptan-2-one**

Dermal	Long-term exposure - systemic effects	54,27 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	1516 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	394,25 mg/m <sup>3</sup> (worker)

**Derivative of Benzotriazol**

Dermal	Long-term exposure - systemic effects	0,5 mg/kg bw/day (worker)
Inhalative	Long-term exposure - systemic effects	0,35 mg/m <sup>3</sup> (worker)

**Reaction mass of pentamethylpiperidyl sebacat**

Dermal	Acute - short-term exposure - systemic effects	2,5 mg/kg bw/day (worker)
	Long-term exposure - systemic effects	2,5 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - systemic effects	2,35 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	2,35 mg/m <sup>3</sup> (worker)

**PNECs****123-86-4 n-butyl acetate**

PNEC	35,6 mg/l (STP)
	0,18 mg/l (aqua, freshwater)
	0,36 mg/l (aqua, intermittent releases)
	0,018 mg/l (aqua, marine water)
	0,0981 mg/l (sediment marine water)
	0,981 mg/kg (sediment freshwater)

**108-10-1 4-methylpentan-2-one**

PNEC	27,5 mg/l (STP)
	0,6 mg/l (aqua, freshwater)
	1,5 mg/l (aqua, intermittent releases)
	0,06 mg/l (aqua, marine water)
	0,83 mg/kg (sediment marine water)
	8,27 mg/kg (sediment freshwater)

**1330-20-7 xylene**

PNEC	6,58 mg/l (STP)
	0,237 mg/l (aqua, freshwater)
	0,327 mg/l (aqua, intermittent releases)
	0,327 mg/l (aqua, marine water)
	12,46 mg/kg (sediment marine water)

**110-43-0 heptan-2-one**

PNEC	12,5 mg/l (STP)
	0,0982 mg/l (aqua, freshwater)
	0,982 mg/l (aqua, intermittent releases)
	0,00982 mg/l (aqua, marine water)
	0,189 mg/kg (sediment marine water)

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1,89 mg/kg (sediment freshwater)  
0,321 mg/kg (soil)

**Derivative of Benzotriazol**

PNEC 10 mg/l (STP)

0,00023 mg/l (aqua, marine water)  
0,0023 mg/l (aqua freshwater)  
2 mg/kg (bd)  
0,028 mg/l (intermittent release water)  
0,306 mg/kg (sediment marine water)  
3,06 mg/kg (sediment freshwater)

**Reaction mass of pentamethylpiperidyl sebacat**

PNEC 1 mg/l (STP)

0,0022 mg/l (aqua, freshwater)  
0,00022 mg/l (aqua, marine water)  
0,21 mg/kg (bd)  
0,009 mg/l (intermittent release water)  
0,11 mg/kg (sediment marine water)  
1,05 mg/kg (sediment freshwater)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· **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.

Filter A.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product.

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.

Butyl rubber, BR

· **Penetration time of glove material**Thickness of the gloves  $\geq 0.3$  mm (butylacetate)Value for the permeation: Level  $\geq 60$  min (butylacetate)

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

· **Body protection:** Solvent resistant protective clothing

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## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:

Fluid

Colour:

According to product specification

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· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	116 °C
· Flash point:	23 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	370 °C
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	1,2 Vol %
Upper:	7,5 Vol %
· Vapour pressure at 20 °C:	10,7 hPa
· Density at 20 °C:	1,03 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Slightly soluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	48 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	47,1 %
VOC (EC)	47,07 %
· 9.2 Other information	No further relevant information available.

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## SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with strong oxidizing agents.
- 10.4 Conditions to avoid High temperatures.
- 10.5 Incompatible materials: Oxidizing agents.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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## SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity
- LD/LC50 values relevant for classification:

### 123-86-4 n-butyl acetate

Oral	LD50	10760 mg/kg (rat) (OECD 423)
Dermal	LD50	>14112 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4h	23,4 mg/l (rat) (OECD 403 in vivo, aerosol)

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**108-10-1 4-methylpentan-2-one**

Oral LD50 2080 mg/kg (rat)  
 Dermal LD50 >2000 mg/kg (rabbit)  
 Inhalative LC50/4h 8,2-16,4 mg/l (rat)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral LD50 >6800 mg/kg (rat)  
 Dermal LD50 >3400 mg/kg (rab)  
 Inhalative LC50/4h >10,2 mg/l (rat)

**1330-20-7 xylene**

Oral LD50 3523 mg/kg (rat)  
 Dermal LD50 12126 mg/kg bw (rabbit)  
 Inhalative LC50/4h 27124 mg/m<sup>3</sup> (rat)

**64742-95-6 Hydrocarbons, C9, aromatics**

Oral LD50 3592 mg/kg (rat)  
 Dermal LD50 >3160 ml/kg (rabbit)  
 Inhalative LC50/4h >6193 ppm (rat)

**110-43-0 heptan-2-one**

Oral LD50 1670 mg/kg (rat)  
 Dermal LD50 12600 mg/kg (rabbit)

**Derivative of Benzotriazol**

Oral LD50 >5000 mg/kg (rat) (OESO 401)  
 Dermal LD50 >2000 ml/kg (rat) (OESO 402)  
 Inhalative LC50/4h >5,8 mg/l (rat) (OESO 403)

**64742-95-6 Solvent naphtha (petroleum), light aromatic**

Oral LD50 >6800 mg/kg (rat)  
 Dermal LD50 >3400 mg/kg (rab)  
 Inhalative LC50/4h >10,2 mg/l (rat)

- Primary irritant effect:
- Skin corrosion/irritation No irritant effect.
- Serious eye damage/irritation No irritating effect.
- Respiratory or skin sensitisation No sensitising effects known.

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## SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:

**123-86-4 n-butyl acetate**

EC50/48h 44 mg/l (daphnia magna)  
 EC50/72h 647,7 mg/l (desmodesmus supspicatus)  
 IC50 356 mg/l (tetrahymena pyriformis) (40 h)  
 LC50/96h 18 mg/l (pimphales promelas) (OECD 203)  
 NOAEL/72h 200 mg/l (desmodesmus supspicatus)

**108-10-1 4-methylpentan-2-one**

EC50/48h >200 mg/l (daphnia magna)  
 EC50/96h 400 mg/l (algae)  
 LC50/96h >179 mg/l (fish)

**1330-20-7 xylene**

EC50/48h 7,4 mg/l (daphnia magna)  
 IC50 1-10 mg/l (TISBE Marine copepod)  
 1-10 mg/l (algae)  
 > 100 mg/l (bacteria)  
 1-10 mg/l (fish)  
 NOAEL 0,1-1 mg/l (TISBE Marine copepod)

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1-10 mg/l (fish)

**Derivative of Benzotriazol**

EC10/72h (static)	10 mg/l (pseudokirchneriella subcapitata) (OESO 201)
EC50/3h (static)	>1000 mg/l (ac) (OESO 209)
EC50/48h (static)	4,0 mg/l (daphnia magna) (OESO 202)
EC50/72h (static)	>9 mg/l (algae) (OESO 201)
LC0/14d	>1000 mg/kg (Eisenia foetida) (OESO 207)
LC50/96h (static)	(oncorhynchus mykiss)
NOEC/21d (dynamic)	0,78 mg/l (daphnia magna) (OESO 202)
NOEC/56d	100 mg/kg (Eisenia foetida) (OESO 222)

**Reaction mass of pentamethylpiperidyl sebacat**

EC50/24h	20 mg/l (daphnia magna) (OESO 202)
EC50/3h	>100 mg/l (ac) (OESO 209)
EC50/72h (static)	1,68 mg/l (desmodesmus supspicatus) (OESO 201)
LC50/96h	0,97 mg/l (lepomis macrochirus) (OESO 203)
	0,9 mg/l (Brachydanio rerio) (OESO 203)
	7,9 mg/l (oncorhynchus mykiss) (OESO 203)
NOEC/21d (dynamic)	1 mg/l (daphnia magna) (OESO 211)

· 12.2 Persistence and degradability No further relevant information available.

· Degree of elimination:

**123-86-4 n-butyl acetate**

OECD 301D 83 % (l) (28 d)

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 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) (Self-assessment): 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

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

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## SECTION 13: Disposal considerations

· 13.1 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 dangerous substances

· Uncleaned packaging:

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

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## SECTION 14: Transport information

· 14.1 UN-Number

· ADR,ADN, IMDG, IATA UN1263

· 14.2 UN proper shipping name

· ADR/ADN 1263 PAINT

· IMDG, IATA PAINT

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— EU —





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- 14.3 Transport hazard class(es)
- ADR,ADN, IMDG, IATA



- Class 3 Flammable liquids.
- Label 3
- 14.4 Packing group
- ADR,ADN, IMDG, IATA III
- 14.5 Environmental hazards:
- Marine pollutant: No
- 14.6 Special precautions for user Warning: Flammable liquids.
- Danger code (Kemler): 30
- EMS Number: F-E,S-E
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

- 
- ADR/ADN
  - Limited quantities (LQ) 5L
  - Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
  - Transport category 3
  - Tunnel restriction code D/E

- 
- IMDG
  - Limited quantities (LQ) 5L
  - Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
  - UN "Model Regulation": UN1263, PAINT, 3, III

## SECTION 15: Regulatory information

- 15.1 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:
- Other regulations, limitations and prohibitive regulations  
The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

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
  - 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.

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## according to 1907/2006/EC, Article 31

Printing date 02.06.2015

Version number 3

Revision: 02.06.2015

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**Trade name: KRISTAL UHS Clear Coat 93 2:1 MATT eXcellent**


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H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H331 Toxic if inhaled.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 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.

· **Contact:** Dhr. B. Peters

· **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)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Flam. Liq. 2: Flammable liquids, Hazard Category 2  
 Flam. Liq. 3: Flammable liquids, Hazard Category 3  
 Acute Tox. 3: Acute toxicity, Hazard Category 3  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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