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Printing date 16.06.2015 SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

COATINGS

· Trade name: KRISTAL UHS Surfacer 53 White

· Article number: 5329

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 Paint
- 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

H226 Flammable liquid and vapour. Flam. Lig. 3

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



Signal word Warning

- Hazard statements
- H226 Flammable liquid and vapour.

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.
- If skin irritation occurs: Get medical advice/attention. P332+P313
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information:

EUH208 Contains Fatty acids, tall-oil, esters with polyethylene glycol mono(hydrogen maleate), compounds with amides from diethylenetriamine and tall-oil fatty acids. May produce an allergic reaction.

- Restricted to professional users.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- ·vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients				
 · 3.2 Chemical character · Description: Mixture of s 	erisation: Mixtures substances listed below with nonhazardous additions.			
 Dangerous componer 	nts:			
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate � Flam. Liq. 3, H226; � STOT SE 3, H336 9	10-25%		
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-3 01-2119486136-3 01-2119555267-3	=	2,5-10% te		
CAS: 64742-95-6 EINECS: 265-199-0 Reg.nr.: 01-2119455851-3	Solvent naphtha (petroleum), light arom.	2,5-10%		
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene � Flam. Liq. 2, H225; � STOT RE 2, H373; Asp. Tox. 1, H304; � Acute Tox. 4, H332; Aqu Chronic 3, H412	0,5-2,5% atic		
CAS: 222716-38-3	Fatty acids, tall-oil, esters with polyethylene glycol mono(hydrogen maleate), compounds with amides from diethylenetriamine and tall-oil fatty acids ♦ STOT RE 2, H373; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ♦ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	⊴ 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:
- Take affected persons out into the fresh air.
- 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.
- If skin irritation continues, consult a doctor.
- · 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.
- · 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.

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 6.3 Methods and material for containment an Absorb with liquid-binding material (sand, diatomite, aci 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 eq See Section 13 for disposal information. 	d binders, universal binders, sawdust).	(Contd. of page 2)
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 protect Keep ignition sources away - Do not smoke. Protect against electrostatic charges. 	tion:	
 7.2 Conditions for safe storage, including any Storage: Requirements to be met by storerooms and restriction about storage in one common state. Further information about storage conditions Storage class: 3 7.3 Specific end use(s) No further relevant information 	receptacles: Store only in the original receptacle. orage facility: Store away from oxidising agents. : Keep container tightly sealed.	
SECTION 8: Exposure controls/perso	onal protection	
[.] Additional information about design of techni	cal facilities: No further data; see item 7.	
 8.1 Control parameters Ingredients with limit values that require mon 1330-20-7 xylene IOELV Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin 100-41-4 ethylbenzene 	itoring at the workplace:	
IOELV Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin • DNELs		
123-86-4 n-butyl acetate		-
Inhalative Acute - short-term exposure - local effects	960 mg/m3 (worker)	
Acute - short-term exposure - systemic effect		
Long-term exposure - local effects Long-term exposure - systemic effects	480 mg/m3 (worker) 480 mg/m3 (worker)	
1330-20-7 xylene		
Dermal Long-term exposure - systemic effects Inhalative Acute - short-term exposure - local effects	180 mg/kg bw/day (worker) 289 mg/m3 (worker)	
Acute - short-term exposure - systemic effect		
Long-term exposure - systemic effects	77 mg/m3 (worker)	
	J -	
100-41-4 ethylbenzene Dermal Acute - short-term exposure - local effects	203 ma/ka bw/day (worker)	
Long-term exposure - systemic effects	293 mg/kg bw/day (worker) 180 mg/kg bw/day (worker)	
Inhalative Long-term exposure - systemic effects • PNECs	77 mg/m3 (worker)	
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)		(Contd. on page 4)

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0.0981 mg/l (sediment marine water) 0,981 mg/kg (sediment freshwater)

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1330-20-7 xylene PNEC 6,58 mg/l (STP)

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0,237 mg/l (aqua, freshwater)

0,327 mg/l (agua, intermittent releases)

0,327 mg/l (agua, marine water)

12,46 mg/kg (sediment marine water)

100-41-4 ethylbenzene

PNEC 9,6 mg/l (STP)

0,1 mg/l (aqua, freshwater)

0,1 mg/l (aqua, intermittent releases)

0,01 mg/l (aqua, marine water)

13,7 mg/kg (sediment freshwater)

2,68 mg/kg (soil)

· 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

Butyl rubber, BR

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.

Penetration time of glove material

Thickness of the gloves ≥ 0.3 mm (butylacetate)

Value for the permeation: Level ≥ 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

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

[.] General Information	-
· Appearance:	
Form:	

Appearance.	
Form:	Fluid
Colour:	White
· Odour:	Characteristic
· Odour threshold:	Not determined.

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[·] pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 124 ℃
· Flash point:	25 ℃
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	370 ℃
· 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: Upper:	1,2 Vol % 7,5 Vol %
$^{\cdot}$ Vapour pressure at 20 $^{\circ}\!\mathrm{C}$:	10,7 hPa
[·] Density at 20 °C: [·] Relative density [·] Vapour density · Evaporation rate	1,57 g/cm ³ Not determined. Not determined. Not determined.
 Solubility in / Miscibility with water: 	Slightly soluble.
· Partition coefficient (n-octanol/wate	er): Not determined.
 · Viscosity: Dynamic at 20 ℃: Kinematic: 	12 Poise Not determined.
 Solvent content: Organic solvents: VOC (EC) 9.2 Other information 	28,9 % 28,87 % No further relevant information available.

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:
- Acids.
- Alkaline products. Oxidizing agents.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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)

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Inhalative LC50/4h 23,4 mg/l (rat) (OECD 403 in vivo, aerosol)

1330-20-7 xylene

OralLD503523 mg/kg (rat)DermalLD5012126 mg/kg bw (rabbit)Inhalative LC50/4h 27124 mg/m3 (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)

100-41-4 ethylbenzene

Oral LD50 3500 mg/kg (rat)

Dermal LD50 17800 mg/kg (rabbit)

· Primary irritant effect:

· Skin corrosion/irritation No irritant effect.

Serious eye damage/irritation No irritating effect.

· Respiratory or skin sensitisation No sensitising effects known.

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)

1330-20-7 xylene

IC50

EC50/48h 7,4 mg/l (daphnia magna)

- 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) 1-10 mg/l (fish)

100-41-4 ethylbenzene

EC50/24h >100 mg/l (daphnia magna)

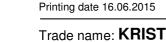
- 12.2 Persistence and degradability No further relevant information available.
- Degree of elimination:

123-86-4 n-butyl acetate

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

- 12.3 Bioaccumulative potential No further relevant information available.
- . 12.4 Mobility in soil No further relevant information available.
- · Ecotoxical 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

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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. **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 · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class 3 Flammable liquids. · Label 3 · 14.4 Packing group · ADR, ADN, IMDG, IATA Ш · 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) 51 · 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 guantities (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.

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· 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 H317 May cause an allergic skin reaction. H319 Causes serious eve irritation. 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 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) CGOU et al. Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 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. 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 2 Stor TR 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 Anuatic Acute 1: Hazardous to the aguatic environment - AcuteHazard 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 EU -



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