



# Safety data sheet

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

Printing date 20.12.2018

Version number 1

Revision: 20.12.2018

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

- 1.1 Product identifier
- Trade name: **ZENITH HS Quick-Dry Surfacer Grey 5:1**
- Article number: Z5210
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use
  - SU21 Consumer uses: Private households / general public / consumers
  - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- Application of the substance / the mixture Coating compound/ Surface coating/ paint
- Uses advised against SU21 Consumer uses: Private households / general public / consumers
- 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.  
STOT SE 3      H336 May cause drowsiness or dizziness.

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-determining components of labelling:
  - n-butyl acetate
- Hazard statements
  - H226 Flammable liquid and vapour.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.
  - H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
  - P280 Wear protective gloves/protective clothing/eye protection/face protection.
  - P284 In case of inadequate ventilation wear respiratory protection.
  - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 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 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.

### SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components %(m/m):**

CAS: 123-86-4	n-butyl acetate	10-25%
EINECS: 204-658-1	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	
Reg.nr.: 01-2119485493-29		
CAS: 1330-20-7	xylene	2.5-10%
EINECS: 215-535-7	⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312;	
Reg.nr.: 01-2119488216-32	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	
CAS: 9004-70-0	cellulose nitrate	0.5-2.5%
	⚠ Flam. Sol. 1, H228	
CAS: 78-83-1	butanol	0.5-2.5%
EINECS: 201-148-0	⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335-H336	
Reg.nr.: 01-2119484609-23		
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	≤0.5%
	⚠ 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	

· **Additional information:** For the wording of the listed hazard 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.  
 If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
 Remove contactlenses.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately.  
 Rinse mouth.

· **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:** CO<sub>2</sub> 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)

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- 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:  
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.
- 6.3 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.
- 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:

##### **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

- DNELs

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

Inhalative Acute - short-term exposure - systemic effects	600 mg/m <sup>3</sup> (worker)
Acute - short-term exposure - local effects	600 mg/m <sup>3</sup> (worker)
Long-term exposure - systemic effects	300 mg/m <sup>3</sup> (worker)
Long-term exposure - local effects	300 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 - systemic effects	289 mg/m <sup>3</sup> (worker)
Acute - short-term exposure - local effects	289 mg/m <sup>3</sup> (worker)
Long-term exposure - systemic effects	77 mg/m <sup>3</sup> (worker)

##### **78-83-1 butanol**

Inhalative Long-term exposure - local effects	310 mg/m <sup>3</sup> (worker)
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## · PNECs

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

PNEC 0.981 mg/kg (sediment freshwater)

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)

**1330-20-7 xylene**

PNEC 12.46 mg/kg (sediment marine water)

PNEC 6.58 mg/l (STP)

0.327 mg/l (aqua, freshwater)

0.327 mg/l (aqua, marine water)

**78-83-1 butanol**

PNEC 0.152 mg/kg (aqua, marine water)

1.52 mg/kg (sediment freshwater)

0.0699 mg/kg (soil)

PNEC 10 mg/l (STP)

0.4 mg/l (aqua, freshwater)

11 mg/l (aqua, intermittent releases)

0.04 mg/l (aqua, marine water)

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

## · 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

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.

Short term filter 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

Suitable materials for safety gloves (EN 374):

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:	Viscous
Colour:	Grey
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value: Not determined.

##### · Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	≥78 °C

· Flash point: 25 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: ≥370 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: 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: 1.46 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 at 20 °C:	10,000-12,000 mPas
Kinematic:	Not determined.

##### · Solvent content:

Organic solvents:	31.6 %
VOC (EC)	31.58 %

Solids content: 68.3 %

· 9.2 Other information: No further relevant information available.

### SECTION 10: Stability and reactivity

· 10.1 Reactivity: No further relevant information available.

#### · 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 Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:
 

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  - 123-86-4 n-butyl acetate**
  - Oral LD50 10,760 mg/kg (rat) (OECD 423)
  - Dermal LD50 >14,112 mg/kg (rabbit) (OECD 402)
  - Inhalative LC50/4h 23.4 mg/l (rat) (OECD 403 in vivo, aerosol)
  - 1330-20-7 xylene**
  - Oral LD50 3,523 mg/kg (rat)
  - Dermal LD50 12,126 mg/kg bw (rabbit)
  - Inhalative LC50/4h 6,700 ppm (rat)
  - 78-83-1 butanol**
  - Oral LD50 3,350 mg/kg (rat)
  - Dermal LD50 >2,000 mg/kg (rabbit)
  - Inhalative LC50/4h 24.6 mg/l (rat)
- Primary irritant effect:
  - Skin corrosion/irritation Based on available data, the classification criteria are not met.
  - Serious eye damage/irritation  
Causes serious eye irritation.
  - Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
  - 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 drowsiness or dizziness.
  - STOT-repeated exposure Based on available data, the classification criteria are not met.
  - Aspiration hazard Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:
 

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  - 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)
  - NOAEL/72h 200 mg/l (desmodesmus supspicatus)
  - LC50/96h 18 mg/l (pimphales promelas) (OECD 203)
  - 1330-20-7 xylene**
  - IC50/72h 2.2 mg/l (algae)
  - NOEC/72h 0.44 mg/l (algae)
  - EC50/48h 1 mg/l (daphnia magna)
  - LC50/96h 2.6 mg/l (oncorhynchus mykiss)
  - 78-83-1 butanol**
  - EC50/48h 1,100 mg/l (daphnia magna)
  - EC50/72h 1,799 mg/l (algae)
  - LC50/96h 1,430 mg/l (pimphales promelas)
- 12.2 Persistence and degradability No further relevant information available.
- Degree of elimination:
 

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  - 123-86-4 n-butyl acetate**
  - OECD 301D 83 % (l) (28 d)

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## · 12.3 Bioaccumulative potential

**1330-20-7 xylene**

BCF 25.9 (/)

LogPow 3.15 (/)

## · 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.

**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 hazardous substances

## · Uncleaned packaging:

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

**SECTION 14: Transport information**

## · 14.1 UN-Number

· ADR/ADN, ADN, IMDG

Void

· IATA

UN1263

## · 14.2 UN proper shipping name

· ADR/ADN, ADN, IMDG

Void

· IATA

PAINT

## · 14.3 Transport hazard class(es)

· ADR/ADN, ADN, IMDG

· Class

Void

· IATA



· Class

3 Flammable liquids.

· Label

3

## · 14.4 Packing group

· ADR/ADN, IMDG

Void

· IATA

III

## · 14.5 Environmental hazards:

Not applicable.

## · 14.6 Special precautions for user

Not applicable.

## · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· UN "Model Regulation":

Void

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### 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
  - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
  - 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
  - H226 Flammable liquid and vapour.
  - H228 Flammable solid.
  - 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.
  - H318 Causes serious eye damage.
  - H319 Causes serious eye irritation.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H373 May cause damage to the central nervous system, the kidneys and the liver through prolonged or repeated exposure. Route of exposure: Inhalation.
  - H400 Very toxic to aquatic life.
  - H410 Very 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
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 3: Flammable liquids – Category 3
  - Flam. Sol. 1: Flammable solids – Category 1
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Skin Sens. 1: Skin sensitisation – Category 1
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
  - Asp. Tox. 1: Aspiration hazard – Category 1
  - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
  - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3