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Safety data sheet according to 1907/2006/EC, Article 31

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

- · 1.1 Product identifier
- · Trade name: <u>ROYAL DALI OILCOLOUR, 118 TITANIUM WHITE (LINSEEDOIL)</u>
- · Article number: 020x.1183
- \cdot 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Relevant identified use: Artists' colour · 1.3 Manufacturer/Supplier:
- Royal Dali Gebouw 3 - unit 3.2.2A Kruisweg 855, NL-2132 NG Hoofddorp
- Further information obtainable from: Regulatory Affairs mail@royaldali.com
- · 1.4 Emergency telephone number:
- *Great Britain: National Poisons Information Service (Bermingham) tel.* (44) (0) 1215074123 *Ireland: National Poisons Information Centre (Dublin) tel.* 35 3 18379966

SECTION 2: Hazards identification

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

GHS09 environment

Aquatic Chronic 2 H411 Toxic 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



GHS09

- · Signal word Void
- · Hazard statements
- H411 Toxic to aquatic life with long lasting effects.
- · Precautionary statements
- P273 Avoid release to the environment.
- P501 Dispose of contents/container to hazardous waste collection point.
- · 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 non-hazardous additions.

• Dangerous components:		
CAS: 1314-13-2	zinc oxide	5-10%
EINECS: 215-222-5 Reg.nr.: 01-2119463881-32-xxxx	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

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· 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

· After inhalation: Not applicable.

- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.

• After swallowing: If symptoms persist consult doctor.

- 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, sand, extinguishing powder. Do not use water.
- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases/vapours is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: 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).
- 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 No special precautions are necessary if used correctly.
- Information about fire and explosion protection: No special measures required.
- · 7.2 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: Not required.
- · Storage class: -
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

·DNELs		
1314-13-2 zinc oxide		
Oral	DNEL,long term (chronic) - systemic effects 0.83 mg/kg bw/day (Consumer)	
Dermal	DNEL,long term (chronic) - systemic effects 83 mg/kg bw/day (Consumer)	

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			83 mg/kg bw/day (Employee)	
Inhalative DNEL,long term (cl		hronic) - systemic effects	2.5 mg/m3 (Consumer)	
			5 mg/m3 (Employee)	
· PNECs	·PNECs			
1314-13-2 zinc oxide				
PNEC,fresh water		0.0206 mg/l (aquatic organism)		
PNEC,marine water		0.0061 mg/l (aquatic organism)		
PNEC, fresh water sediment		117.8 mg/kg (aquatic organism)		
PNEC, marine water sediment		56.5 mg/kg (aquatic organism)		
PNEC,soil 35.6 mg/kg		35.6 mg/kg (aquatic orgo	anism)	
PNEC, sewage treatment plant 0.1 mg/l (aquatic organis		sm)		

· 8.2 Exposure controls

• Personal protective equipment:

· General protective and hygienic measures: Wash hands before breaks and at the end of work.

• Respiratory protection: Not required.

• Protection of hands:

• Material of gloves Not applicable.

· Penetration time of glove material Not applicable.

• Eye protection: Not required.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties			
· General Information	· General Information		
· Appearance:			
Form:	Pasty		
Colour:	White		
Odour:	Characteristic		
· Odour threshold:	Not determined.		
pH-value:	Not applicable.		
• Change in condition Melting point/freezing point: Initial boiling point and boiling range:	Undetermined. >200 °C		
· Flash point:	>100 °C		
· Flammability (solid, gas):	Not applicable.		
Decomposition temperature:	Not determined.		
Explosive properties:	Product does not present an explosion hazard.		
· Explosion limits: Lower: Upper: · Oxidising properties	Not determined. Not determined. No further relevant information available.		
· Vapour pressure:	Not determined.		
• Density at 20 °C: • Vapour density • Evaporation rate	1.85 g/cm³ Not applicable. Not applicable.		
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.		
Partition coefficient: n-octanol/water:	Not determined.		

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· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
• 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- 10.1 Reactivity Dangerous reactions are not expected if the product is handled according to its intended use.
- 10.2 Chemical stability Stable under recommended storage and handling conditions (see section 7).
- · 10.3 Possibility of hazardous reactions
- Dangerous reactions are not expected if the product is handled according to its intended use.

• 10.4 Conditions to avoid No further relevant information available.

- · 10.5 Incompatible materials:
- Acids; Alkali (lyes)

Strong oxidising agents.

• 10.6 Hazardous decomposition products: No decomposition if used according to specifications.

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:

1314-13-2 zinc oxide

Oral LD50 >5,000 mg/kg (rat)

- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, 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.
- $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$
- 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:		
1314-13-2 zinc oxide		
EC50, acute	0.137 mg/l (algae)	
	0.413 mg/l (daphnia)	
NOEC, chronic	19 μg/l (algae)	
	82 μg/l (daphnia)	
12.2 Persistence and degradability No further relevant information available		

• 12.2 Persistence and degradability No further relevant information available.

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

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Also poisonous for fish and plankton in water bodies.

Toxic for 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.

• Uncleaned packaging:

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

SECTION 14: Transport information	
· 14.1 UN-Number · ADR, IMDG, IATA	UN3082
· 14.2 UN proper shipping name · ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
·IMDG	LIQUID, N.O.S. (zinc oxide) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide)
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class · Label	9 Miscellaneous dangerous substances and articles. 9
Laber	
· 14.4 Packing group · ADR, IMDG, IATA	111
· 14.4 Packing group	III Product contains environmentally hazardous substances: zinc oxide
 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: 	Product contains environmentally hazardous substances: zinc oxide Symbol (fish and tree)
 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 	Product contains environmentally hazardous substances: zinc oxide Symbol (fish and tree) Symbol (fish and tree)
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 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Danger code (Kemler): 	Product contains environmentally hazardous substances: zinc oxide Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances and articles. 90
 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Danger code (Kemler): EMS Number: 	Product contains environmentally hazardous substances: zinc oxide Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F
 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Danger code (Kemler): 	Product contains environmentally hazardous substances: zinc oxide Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances and articles. 90
 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category 14.7 Transport in bulk according to Annex II of the second se	Product contains environmentally hazardous substances: zinc oxide Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
 14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category 	Product contains environmentally hazardous substances: zinc oxide Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A

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· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
• Tunnel restriction code	E
·IMDG	
· Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN ''Model Regulation'':	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ZINC OXIDE), 9, 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 E2 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 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

H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. • 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) 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 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 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2