



SAFETY DATA SHEET

RCL 595

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

1.1. Product identifier

Product name RCL 595

Product number 64228

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Pigments for paint and printing inks

1.3. Details of the supplier of the safety data sheet

Supplier Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
BD3 7AY
+44 1274 267300
+44 1274 267306
SDS.EMEA@univarsolutions.com

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 64228

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

Supplemental label information EUH210 Safety data sheet available on request.
EUH212: Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≥ 10 µm]			60-100%
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01-2119489379-17-XXXX	
Classification Not Classified			
ZIRCONIUM OXIDE			1-5%
CAS number: 1314-23-4	EC number: 215-227-2	REACH registration number: 01-2119486976-14-XXXX	
Acute Toxicity Estimate (oral):> 5000 mg/kg Acute Toxicity Estimate (inhalation):> 4.3 mg/lDust/Mist4 hours			
Classification Not Classified			
ALUMINIUM HYDROXIDE			1-5%
CAS number: 21645-51-2	EC number: 244-492-7	REACH registration number: 01-2119529246-39-XXXX	
Classification Not Classified			
PROPYLIDYNETRIMETHANOL			<1%
CAS number: 77-99-6	EC number: 201-074-9	REACH registration number: 01-2119486799-10-XXXX	
Classification Repr. 2 - H361fd			

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention.
Ingestion	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless under the direction of medical personnel. Get medical attention if any discomfort continues.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention if any discomfort continues.

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Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation Dust may irritate the respiratory system. Coughing, chest tightness, feeling of chest pressure.

Eye contact May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards When heated and in case of fire, toxic vapours/gases may be formed. Dust may form explosive mixture with air.

Hazardous combustion products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon. Silicon. Metal oxides.

5.3. Advice for firefighters

Protective actions during firefighting Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Keep unnecessary and unprotected personnel away from the spillage. Avoid generation and spreading of dust. Eliminate all sources of ignition. Provide adequate ventilation. Avoid inhalation of dust.

6.2. Environmental precautions

Environmental precautions Avoid discharge into water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Usage precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Eye wash facilities and emergency shower must be available when handling this product. Provide adequate ventilation. Do not breathe dust. Do not eat, drink or smoke when using this product. Protect from moisture. Dust may form explosive mixture with air.
Advice on general occupational hygiene	Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Provide eyewash station and safety shower.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from the following materials: Strong oxidising agents. Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition. Container must be kept tightly closed when not in use.
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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure controls/Personal protection**8.1. Control parameters****Occupational exposure limits**Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dustLong-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust**TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≥ 10 µm]**Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dustLong-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust**ALUMINIUM HYDROXIDE**

Long-term exposure limit (8-hour TWA): WEL No std.

Short-term exposure limit (15-minute): WEL No std.

WEL = Workplace Exposure Limit.

Ingredient comments	WEL = Workplace Exposure Limits
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TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≥ 10 µm] (CAS: 13463-67-7)

Ingredient comments	WEL = Workplace Exposure Limits
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ALUMINIUM HYDROXIDE (CAS: 21645-51-2)

Ingredient comments	WEL = Workplace Exposure Limits
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DNEL	- Oral; Short term : 6.85 mg/kg/day - Inhalation; Short term : 3.59 mg/m ³
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ZIRCONIUM OXIDE (CAS: 1314-23-4)

Ingredient comments	No exposure limits known for ingredient(s).
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Workers - Dermal; Long term systemic effects: 15.75 mg/kg/day
 Workers - Inhalation; Long term systemic effects: 5 mg/m³
 General population - Oral; Long term systemic effects: 7.9 mg/kg/day
 General population - Inhalation; Long term systemic effects: 2.5 mg/m³
 General population - Dermal; Long term systemic effects: 7.9 mg/kg/day

PROPYLIDYNETRIMETHANOL (CAS: 77-99-6)**Ingredient comments**

No exposure limits known for ingredient(s).

DNEL

Workers - Inhalation; Long term systemic effects: 3.3 mg/m³
 Workers - Dermal; Long term systemic effects: 0.94 mg/kg
 Consumer - Dermal; Long term systemic effects: 0.34 mg/kg
 Consumer - Inhalation; Long term systemic effects: 0.58 mg/m³
 Consumer - Oral; Long term systemic effects: 0.34 mg/kg

PNEC

Fresh water; 1 mg/l
 marine water; 0.1 mg/l
 Intermittent release; 10 mg/l
 STP; 100 mg/l
 Sediment (Marinewater); 0.351 mg/kg
 Sediment (Freshwater); 3.505 mg/kg
 Soil; 0.241 mg/kg

8.2. Exposure controls**Protective equipment****Appropriate engineering controls**

Observe any occupational exposure limits for the product or ingredients. Avoid generation and spreading of dust. Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Dust-resistant, chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The selected gloves should have a breakthrough time of at least 8 hours. Nitrile rubber. Thickness: 3 - 8 mm To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear appropriate clothing to prevent skin contamination.

Hygiene measures

When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Provide eyewash station and safety shower.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³. If ventilation is inadequate, suitable respiratory protection must be worn. Particulate filter, type P2. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Powder.
Colour	White.
Odour	Almost odourless.
Odour threshold	No information available.
pH	No information available.
Melting point	1830°C
Initial boiling point and range	2972°C
Flash point	No information available.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	3.7 - 4.1
Bulk density	No information available.
Solubility(ies)	Insoluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Explosive under the influence of a flame	No information available.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	None.
Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.

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Volatile organic compound No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Metal oxide(s). Oxides of the following substances: Carbon. Silicon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation

Animal data Not irritating. Rabbit OECD 404

Serious eye damage/irritation

Serious eye damage/irritation Solid particles trapped behind the eyelid may cause abrasive damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising. Mouse Guinea pig

Germ cell mutagenicity

Genotoxicity - in vitro Ames test Negative. OECD 471

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Reproductive toxicity - development No information available.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

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Aspiration hazard	Based on available data the classification criteria are not met.
Inhalation	Dust may irritate the respiratory system. Coughing, chest tightness, feeling of chest pressure. May cause cancer by inhalation.
Ingestion	May cause discomfort if swallowed.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	Solid particles trapped behind the eyelid may cause abrasive damage.
Route of exposure	Inhalation

Toxicological information on ingredients.

**TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH
AERODYNAMIC DIAMETER $\geq 10 \mu\text{m}$]**

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat OECD 425

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 10000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 6.82 mg/l, 4 hours, Dust/Mist Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating. Rabbit OECD 404

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Rabbit OECD 405

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. OECD 429 Not sensitising. Guinea pig OECD 406

Germ cell mutagenicity

Genotoxicity - in vitro Ames test: Negative. OECD 471 Gene mutation: Negative. OECD 476
Chromosome aberration: Negative. OECD 473

Genotoxicity - in vivo Micronucleus assay: Negative. OECD 474

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

Reproductive toxicity - development No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

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STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Inhalation Dust in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact Solid particles trapped behind the eyelid may cause abrasive damage.

ZIRCONIUM OXIDE**Acute toxicity - oral**

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) Not determined.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 4.3 mg/l mg/l, 4 hours, Dust/Mist Rat

Skin corrosion/irritation

Animal data Prolonged skin contact may cause redness and irritation.

Serious eye damage/irritation

Serious eye damage/irritation May cause temporary eye irritation.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising. Guinea pig

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

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STOT - repeated exposure Based on available data the classification criteria are not met. Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicokinetics

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation Dust in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact May cause temporary eye irritation.

ALUMINIUM HYDROXIDE**Acute toxicity - oral**

Notes (oral LD₅₀) No information available.

Acute toxicity - dermal

Notes (dermal LD₅₀) No information available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

RCL 595**Specific target organ toxicity - repeated exposure**

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicokinetics

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation

Dust may cause slight irritation. Coughing. Dust in high concentrations may irritate the respiratory system. Mucous membranes

Ingestion

If exposed to large concentrations: Gastrointestinal symptoms, including upset stomach. Nausea, vomiting.

Skin contact

Skin irritation should not occur when used as recommended.

Eye contact

Solid particles trapped behind the eyelid may cause abrasive damage.

PROPYLIDYNETRIMETHANOL**Acute toxicity - oral**

Notes (oral LD₅₀) LD₅₀ ~14700 mg/kg, Oral, Rat OECD 401

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >10000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LD₅₀ >0.85 mg/l, Inhalation, Rat OECD 403

Skin corrosion/irritation

Animal data Not irritating. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Rabbit

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. OECD 429

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Suspected of damaging fertility.

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Reproductive toxicity - development Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met. Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Not applicable.

General information Suspected of damaging fertility. Suspected of damaging the unborn child.

Inhalation Dust in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact Solid particles trapped behind the eyelid may cause abrasive damage.

SECTION 12: Ecological information

Ecotoxicity The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

Ecological information on ingredients.**TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\geq 10 \mu\text{m}$]**

Ecotoxicity The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

ZIRCONIUM OXIDE

Ecotoxicity The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

ALUMINIUM HYDROXIDE

Ecotoxicity The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

PROPYLIDYNETRIMETHANOL

Ecotoxicity The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

RCL 595**TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\geq 10 \mu\text{m}$]**

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: >10000 mg/l, Cyprinodon variegatus (Sheepshead minnow) OECD 203 LC ₅₀ , : > 1000 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	LC ₅₀ , : > 10000 mg/l, Acartia tonsa LC ₅₀ , : > 1000 mg/l, Daphnia magna OECD 202
Acute toxicity - aquatic plants	EC ₅₀ , : > 100 mg/l, Pseudokirchneriella subcapitata EC ₅₀ , : > 10000 mg/l, Skeletonema costatum
Acute toxicity - terrestrial	NOEC, 672 hours: 10000 mg/kg,

ZIRCONIUM OXIDE

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LL ₅₀ , 96 hours: >100 mg/l, Fish OECD 203
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: > 100 mg/l, Scenedesmus subspicatus OECD 201

ALUMINIUM HYDROXIDE

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: >10000 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >10000 mg/l, Daphnia magna

PROPYLIDYNETRIMETHANOL

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: >1000 mg/l, Oryzias latipes (Red killifish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 24 hours: 13000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >1000 mg/l, Selenastrum capricornutum OECD 201

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Acute toxicity - microorganisms	EC10, 3 hours: >1000 mg/l, Activated sludge OECD 209
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Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 1000 mg/l, Daphnia magna OECD 211
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12.2. Persistence and degradability

Persistence and degradability The product contains inorganic substances which are not biodegradable.

Ecological information on ingredients.

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\geq 10 \mu\text{m}$]

Persistence and degradability	The product contains only inorganic substances which are not biodegradable.
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ZIRCONIUM OXIDE

Persistence and degradability	There are no data on the degradability of this product.
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ALUMINIUM HYDROXIDE

Persistence and degradability	The product is not biodegradable.
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PROPYLIDYNETRIMETHANOL

Persistence and degradability	The product is not readily biodegradable. The product is biodegradable.
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Biodegradation	- 6%: 28 days OECD 301E - 100%: 28 days OECD 302B
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12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient No information available.

Ecological information on ingredients.

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\geq 10 \mu\text{m}$]

Bioaccumulative potential	BCF: 19 - 352, Oncorhynchus mykiss (Rainbow trout)
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Partition coefficient	No information available.
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ZIRCONIUM OXIDE

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
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ALUMINIUM HYDROXIDE

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Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient No information available.

PROPYLIDYNETRIMETHANOL

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.
BCF: 6.3-16.2, Cyprinus carpio (Common carp) OECD 305 C

Partition coefficient log Kow: -0.47

12.4. Mobility in soil

Mobility The product is insoluble in water.

Ecological information on ingredients.**TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\geq 10 \mu\text{m}$]**

Mobility The product is insoluble in water.

ZIRCONIUM OXIDE

Mobility No data recorded.

ALUMINIUM HYDROXIDE

Mobility The product is insoluble in water and will spread on the water surface.

PROPYLIDYNETRIMETHANOL

Mobility Immiscible with water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.**TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\geq 10 \mu\text{m}$]**

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

ZIRCONIUM OXIDE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

ALUMINIUM HYDROXIDE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

PROPYLIDYNETRIMETHANOL

RCL 595**Results of PBT and vPvB assessment**

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects**Other adverse effects** Not determined.**Ecological information on ingredients.****TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\geq 10 \mu\text{m}$]****Other adverse effects** No information available.**ZIRCONIUM OXIDE****Other adverse effects** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.**ALUMINIUM HYDROXIDE****Cod** 8g/g**Other adverse effects** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.**PROPYLIDYNETRIMETHANOL****Other adverse effects** No information available.**SECTION 13: Disposal considerations****13.1. Waste treatment methods****General information** Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty.**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.**SECTION 14: Transport information****General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).**14.1. UN number**

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

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Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories**EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

Canada - DSL/NDL

All the ingredients are listed or exempt.
DSL

US - TSCA

All the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

Japan - ENCS

All the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines – PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

RCL 595**Taiwan - TCSI**

All the ingredients are listed or exempt.

SECTION 16: Other information**Abbreviations and acronyms used in the safety data sheet**

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

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Classification procedures according to Regulation (EC) 1272/2008	NC: Calculation method.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	31/08/2022
Version number	1.000
SDS number	64228
SDS status	Approved.
Hazard statements in full	H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
Signature	Jitendra Panchal

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