



SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier:**

Aqualinum®

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

Paint for indoor use on buildings etc. Applied with brush, roller etc.

1.3. Details of the supplier of the safety data sheet:

Linolie & Pigment

Øsbygade 46

Phone: 7575 2382

DK-6100 Haderslev

Responsible person for the safety data sheet (e-mail): info@linolie.dk**1.4. Emergency telephone number:**

NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): Dial 111

National Poisons Information Centre (Ireland): +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24-hour service)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture:**

CLP (1272/2008): None.

2.2. Label elements:

None.

2.2. Other hazards:

Rags soaked with the product may cause spontaneous combustion.

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

Endocrine disrupting properties: The substances are not identified as having endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100 or Regulation 2018/605.

SECTION 3: Composition/information on ingredients**3.2. Mixtures:** Water based mixture with linseed oil

% w/w	Substance name	CAS-no.	EC-no.	Index-no.	REACH reg.-no.	Classification	Note
< 20	Titanium dioxide	13463-67-7	236-675-5	022-006-00-2	01-2119489379-17	Carc. 2;H351i	1,2,3
< 10	Diiron trioxide	1309-37-1	215-168-2	-	01-2119457614-35	None	1,2
< 10	Triiron tetraoxide	1317-61-9	215-277-5	-	01-2119457646-28	None	1,2
< 1	Manganese dioxide	1313-13-9	215-202-6	025-001-00-3	01-2119452801-43	Acute Tox. 4;H332+H302 STOT RE 2;H373	1,2,4

1) The substance has an occupational exposure limit.

2) Occurs in some colours.

3) The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1% or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$.

4) ATE (oral) = 500 mg/kg; ATE (inhalation) = 1,5 mg/l (dust/spray).

Wording of hazard statements - see section 16.



SECTION 4: First-aid measures

4.1. Description of first aid measures:

- Inhalation: Move the affected person to fresh air. Keep at rest. If symptoms persist: Seek medical advice.
Skin contact: Remove all contaminated clothing. Wash skin with water and mild soap.
Eye contact: Flush with water or physiological salt water, holding eyelids open; remember to remove contact lenses, if any. If irritation persists: Seek medical advice.
Ingestion: Rinse mouth and drink plenty of water. **Do not induce vomiting.** If vomiting occurs keep head down to avoid vomit in the lungs. Seek medical advice.

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

May cause slight irritation of skin and eyes.

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

Show this safety data sheet to a physician or emergency ward.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

Not relevant.

5.2. Special hazards arising from the substance or mixture:

Not combustible.

5.3. Advice for firefighters:

Not relevant.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Use gloves of rubber when spill is wiped up – see section 8. Avoid further spreading. Ventilate area of spill.

6.2. Environmental precautions:

Do not empty into drains – see section 12. Inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up:

Take up with absorbent material (e.g. general-purpose binder) and place in marked container for disposal. Place all contaminated material in a metal container with a tight-fitting lid. Clean with water. Dispose of in accordance with local regulations or burn under controlled conditions. Further handling of spillage - see section 13.

6.4. Reference to other sections:

See references above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Avoid contact with skin, eyes and clothing. Provide sufficient ventilation. Remove contaminated clothes. Contaminated clothes or absorbent material is kept under water until disposal or cleaning. Wash hands and contaminated areas with water and soap after end of work.

7.2. Conditions for safe storage, including any incompatibilities:

Store in a tightly closed original container of metal. Keep in a well-ventilated place.

7.3. Specific end use(s):

See section 1.



SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

Occupational exposure limits, UK (EH40/ed.2020):

Substance	8-hour TWA	15-min STEL	Comments
Iron oxide, fume (as Fe)	5 mg/m ³	10 mg/m ³	-
Titanium dioxide (total inhalable)	10 mg/m ³	-	-
Manganese and its inorganic compounds (as Mn)	0.2 mg/m ³	-	E

Occupational exposure limit values, Ireland (2021):

	8-hour TWA	15-min STEL	Notes
Iron oxide, fume (as Fe)	5 mg/m ³	10 mg/m ³	-
Titanium dioxide (total inhalable)	10 mg/m ³	-	-
Manganese and its inorganic compounds (as Mn)	0.2 mg/m ³	-	IOELV

E: The substance has a Community exposure limit.

IOELV: Indicative Occupational Exposure Limit Values set under the EU Chemical Agents Directive 98/24/EC. (for Ireland ~ note E in EU)

DNEL:	Exposure	Value	Population	Effects
Manganese dioxide	Long term, inhalation	0.06 mg/m ³	Worker	Systemic
	Long term, dermal	0.004 mg/kg/d	Worker	Systemic
	Long term, inhalation	0.043 mg/m ³	Consumer	Systemic
	Long term, dermal	0.002 mg/kg/d	Consumer	Systemic
Titanium dioxide	Long-term, inhalation	10 mg/m ³	Workers	Systemic
	Long-term, dermal	700 mg/kg/d	Consumers	Systemic

PNEC:	Medium	Value
Manganese dioxide	Fresh water	0.001 mg/l
	Sea water	500 mg/l
	Fresh water sediment	500 mg/kg
	Sea water sediment	0.004 mg/kg
	Sewage treatment plant	100 mg/l
	Soil	0.028 mg/kg
Titanium dioxide	Fresh water	0.127 mg/l
	Marine water	1.0 mg/l
	Fresh water sediment	1000 mg/kg
	Marine water sediment	100 mg/kg
	Sewage treatment plant	100 mg/l
	Intermittent release	0.61 mg/l
	Soil	100 mg/kg

8.2. Exposure controls:

Appropriate engineering controls: None particular.

Personal protective equipment:

Inhalation: Normally not required when applied with brush or roller.

Skin: Wear protective gloves of nitrile rubber (> 0.3 mm) (EN 374). It has not been possible to find data for breakthrough time. In case of spill on the glove, it is recommended to change it after use.

Eyes: Wear tight fitting safety goggles (EN 166) when there is risk of splashes.

Environmental exposure controls: None particular.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	Different colours
Odour:	Characteristic
Melting point/freezing point (°C):	Not determined
Boiling point or initial boiling point and boiling range (°C):	Not determined
Flammability (solid, gas):	Not relevant (liquid)
Lower and upper explosion limit (vol-%):	Not determined
Flash point (°C):	Not determined
Auto-ignition temperature (°C):	Not determined
Decomposition temperature (°C):	Not determined
pH:	Not determined
Kinematic viscosity:	Not determined
Solubility:	Miscible with water
Partition coefficient n-octanol/water (log value):	Not determined
Vapour pressure:	Not determined
Density and/or relative density:	1.3-1.5
Relative vapour density:	Not determined
Particle characteristics:	Not determined
9.2. Other information:	None relevant

SECTION 10: Stability and reactivity

10.1. Reactivity:

No available data.

10.2. Chemical stability:

Stable under normal conditions (see section 7).

10.3. Possibility of hazardous reactions:

Warning: Combustible materials such as rags, paper or cloths soaked with the product may cause spontaneous combustion

10.4. Conditions to avoid:

Avoid excessive heating.

10.5. Incompatible materials:

May react with oxidizing materials.

10.6. Hazardous decomposition products:

In case of extensive heating, the mixture may form hazardous decomposition product such as oxides of carbon, short chain fatty acids, polymers and acrolein.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity: Based on available data, the classification criteria are not met.

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 sensitization: Based on available data, the classification criteria are not met.

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: 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 11: Toxicological information (continued)

Hazard class	Data	Test	Data source
Acute toxicity:			
Inhalation	LC ₅₀ (rat) > 6,8 mg/l/4h (Titanium dioxide)	No data	Supplier
Dermal	No data.	-	-
Oral	LD ₅₀ (rat) > 15 g/kg (Linseed oil)	No data	Supplier
	LD ₅₀ (rat) > 24000 mg/kg (Titanium dioxide)	No data	Supplier
	LD ₅₀ (rat) > 5000 mg/kg (Iron oxide)	No data	Supplier
Corrosion/irritation:	Moderate skin irritation, man (Linseed oil)	Draize	RTECS
Sensitization:	No data.	-	-
CMR:	No mutagenicity – negative result (Linseed oil)	No data	TOXNET
	No effect on fertility/offspring (Linseed oil)	No data	TOXNET
	No carcinogen effects in animals (Linseed oil)	No data	TOXNET

Information on likely routes of exposure: Ingestion.

Symptoms:

Inhalation: Slight irritation of the airways. Inhalation of larger amounts may induce discomfort. Manganese dioxide may cause pneumonia without the influence of infectious agents.

Skin: May cause irritation with redness by prolonged contact with skin.

Eyes: May cause irritation with redness and pain.

Ingestion: May cause irritation of the gastrointestinal tract and discomfort, nausea and diarrhea.

Chronic effects: Manganese compounds may reduce the immune defence system in the airways and cause metal fume fever. Damages of the testicles, impotence, decreased sexual activity and decreased fertility.

Titanium dioxide is classified by IARC as group 2B (Possibly carcinogenic to humans). However, this classification does not lead to a CLP classification as carcinogenic. There is no significant exposure to titanium dioxide from liquid products containing titanium dioxide (IARC, Vol. 93).

11.2. Information on other hazards: None known.

SECTION 12: Ecological information

12.1. Toxicity:

Aquatic	Data	Test (Media)	Data source
Fish	LC ₅₀ (<i>Idus dorata</i> , 96h) > 1000 mg/l (Iron oxide)	No data	Supplier
	LC ₅₀ (<i>Pimephales promelas</i> , 96h) > 1000 mg/l (Titanium dioxide)	No data (FW)	Supplier
Daphnia	EC ₅₀ (<i>Daphnia magna</i> , 48h) > 1000 mg/l (Titanium dioxide)	No data (FW)	Supplier
Algae	EC ₅₀ (<i>Pseudokirchnerella subcapitata</i> , 72h) = 16 mg/l (Titanium dioxide)	EPA (FW)	Supplier

12.2. Persistence and degradability:

Methods are missing for determining the biodegradability for inorganic substances such as pigments.

12.3. Bioaccumulative potential:

No relevant available data.

12.4. Mobility in soil:

No relevant available data.

12.5. Results of PBT and vPvB assessment:

No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

12.6. Endocrine disrupting properties:

None known.

12.7. Other adverse effects:

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

The mixture is not considered as hazardous waste. Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

EWC-code:

08 01 12 (mixture itself) and 15 02 03 (Paper towel, inert material etc. contaminated with the mixture)



SECTION 14: Transport information

Not dangerous goods (ADR/RID/IMDG/IATA).

14.1. UN number or ID number: None.

14.2. UN proper shipping name: None.

14.3. Transport hazard class(es): None.

14.4. Packing group: None.

14.5. Environmental hazards: No.

14.6. Special precautions for user: None.

14.7. Maritime transport in bulk according to IMO instruments: Not relevant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

Special labelling according to Directive 2004/42 annex IIB (VOC):

VOC subcategory: A/a

VOC limit value (g/l): 30

VOC content (g/l): 0

Danish 1993-Code no.: 00-1

15.2. Chemical safety assessment:

No CSR.

SECTION 16: Other information

Abbreviations:

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

EC₅₀ = Effect Concentration 50%

FW = Fresh Water

LC₅₀ = Lethal Concentration 50%

LD₅₀ = Lethal Dose 50%

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

Literature:

RTECS = Register of Toxic Effects of Chemical Substances.

Supplier's safety data sheet.

TOXNET = Toxicology Data Network via Toxline database.

Training advice:

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Changes since the previous edition:

Revision of the format according to Regulation 2020/878.

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