

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

1.1. Product identifier

Product form : Mixture
Trade name : Powerpeel white 5L
UFI : 3GWK-NUD7-K9AV-39U6
Product code : PWP 5W

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Coating solution

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Chemicar Europe NV
Baarbeek, 2
2070 Zwijndrecht
T +32 (0) 3 234 87 80 - F +32 (0) 3 234 87 89
info@chemicar.eu

1.4. Emergency telephone number

Emergency number : +32 (0) 3 760 08 09

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Contains :

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P273 - Avoid release to the environment.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

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Nordic countries regulation

Denmark

MAL code : 00-0

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.]	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8	> 1	Carc. 1B, H350
TITANIUM DIOXIDE	CAS-No.: 13463-67-7 EC-No.: 236-675-5	> 1	Not classified
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	0.1 – 0.2	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	(0.0015 \leq C < 100) Skin Sens. 1, H317 (0.06 \leq C < 0.6) Skin Irrit. 2, H315 (0.06 \leq C < 0.6) Eye Irrit. 2, H319 (0.6 \leq C < 100) Skin Corr. 1B, H314

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: observe (own) safety. Check the vital functions. Check the vital functions. In case of injury and/or intoxication call the European emergency number 112. Keep victim under observation. Symptoms may be delayed. Treat symptoms, starting with most life-threatening injuries and disorders.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

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First-aid measures after skin contact	: Brush off loose particles from skin. Rinse immediately with water. Obtain medical attention if irritation persists.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Consult an ophthalmologist if irritation persists. Contact lenses should be removed.
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell. Do not wait for symptoms to occur to consult Poison Center.

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

Symptoms/effects	: No known effects from this product.
Symptoms/effects after inhalation	: No known effects from this product.
Symptoms/effects after skin contact	: No known effects from this product.
Symptoms/effects after eye contact	: No known effects from this product.
Symptoms/effects after ingestion	: No known effects from this product.
Symptoms/effects upon intravenous administration	: No known effects from this product.
Chronic symptoms	: No known effects from this product.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: ABC-powder. BC-powder. foam. carbon dioxide (CO ₂). For large fire: alcohol resistant foam. Water spray if puddle cannot expand.
Unsuitable extinguishing media	: For a minor fire : Water. Liquid splashes may occur. For a significant fire : Liquid splashes may occur.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Carbon monoxide. Carbon dioxide. melt. Metal oxides.
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5.3. Advice for firefighters

Firefighting instructions	: Do not allow run-off from fire-fighting to enter drains or water courses. Contaminated/fire fighting water withhold.
Protection during firefighting	: Wear recommended personal protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: No open flames. No smoking.
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6.1.1. For non-emergency personnel

Protective equipment	: 8.2.
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6.1.2. For emergency responders

Protective equipment	: EN 374. Gloves. EN 166. Facial Masks. EN 14605. EN 13034. protective clothing. EN 136. EN 137. Self-contained breathing apparatus. 8.2.
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6.2. Environmental precautions

Dam up the solid spill. Collect leaking liquid in covered containers. Prevent liquid from entering sewers, watercourses, and soil.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Take up liquid spill into inert absorbent material. Contaminated surfaces: clean (treat) with an excess of water. Wash clothing and equipment after handling.
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6.4. Reference to other sections

SECTION 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Keep away from any flames or sparking source. Use only non-sparking tools. Observe strict hygiene. Avoid any direct contact with the product. Take off immediately all contaminated clothing. Keep container tightly closed. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed and in well ventilated place.
Storage conditions : Keep container closed when not in use. Use and store away from all naked flames, heat sources or working electrical appliances. Do not smoke.
Incompatible materials : Metal. Heat sources.
Storage temperature : < 25 °C
Packaging materials : a polypropylene.

7.3. Specific end use(s)

Supplier's details.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Belgium		
Huiles minérales (brouillards)	Time-weighted average exposure limit 8 h	5 mg/m ³
	Short time value	10 mg/m ³
Titane (dioxyde de)	Time-weighted average exposure limit 8 h	10 mg/m ³
The Netherlands		
Olienevel (minerale olie)	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	5 mg/m ³
France		
Titane (dioxyde de), en Ti	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	10 mg/m ³
Austria		
5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on (Gemisch im Verhältnis 3:1)	Tagesmittelwert (MAK)	0.05 mg/m ³
Titandioxid (Alveolarstaub)	Tagesmittelwert (MAK)	5 mg/m ³
	Kurzzeitwert 60(Miw) 2x (MAK)	10 mg/m ³
UK		
Titanium dioxide respirable	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	4 mg/m ³
Titanium dioxide total inhalable	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	10 mg/m ³
USA (TLV-ACGIH)		
Mineral oil, excluding metal working fluids: Pure, highly and severely refined	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	5 mg/m ³ (I)
Titanium dioxide - finescale particles	Time-weighted average exposure limit 8 h (TLV - Intended Changes)	2.5 mg/m ³ (R)
Titanium dioxide - nanoscale particles	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.2 mg/m ³ (R)

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I): Inhalable fraction

(R): Respirable fraction

8.1.2. Recommended monitoring procedure

Product Name	Test	Number
TiO2	NIOSH	7302
TiO2	NIOSH	7304

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

DNEL/DMEL - Workers			
Distillates (petroleum), hydrotreated heavy paraffinic			
Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2.73 mg/m ³	
	Long-term local effects inhalation	5.58 mg/m ³	
	Long-term systemic effects dermal	0.97 mg/kg bw/day	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.02 mg/m ³	
	Acute local effects inhalation	0.04 mg/m ³	
DNEL/DMEL - General population			
Distillates (petroleum), hydrotreated heavy paraffinic			
Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects oral	0.74 mg/kg bw/day	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.02 mg/m ³	
	Acute local effects inhalation	0.04 mg/m ³	
PNEC			
Distillates (petroleum), hydrotreated heavy paraffinic			
Compartments	Value	Remark	
Oral	9.33 mg/kg food		
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
Compartments	Value	Remark	
Fresh water	3.39 µg/l		
Fresh water (intermittent releases)	3.39 µg/l		
Marine water	3.39 µg/l		
Marine water (intermittent releases)	3.39 µg/l		
STP	0.23 mg/l		
Fresh water sediment	0.027 mg/kg sediment dw		
Marine water sediment	0.027 mg/kg sediment dw		
Soil	0.01 mg/kg soil dw		

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Avoid naked flame. Use a splash guard. No flames, no sparks. Eliminate all sources of ignition. Monitor the atmosphere at regular intervals. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection.

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8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

None under normal conditions. Safety glasses. Wear security glasses which protect from splashes. EN 166

Eye protection			
Type	Field of application	Characteristics	Standard
Face mask			

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. EN 14605. EN 13034

Hand protection:

Chemical resistant gloves (according to European standard EN 374 or equivalent)

8.2.2.3. Respiratory protection

Respiratory protection			
Device	Filter type	Condition	Standard
Gas filters	Type A - High-boiling (>65 °C) organic compounds	If conc. in air > exposure limit	

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

6.2. 6.3. For further information refer to section 13.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: white.
Odour	: Not available.
Odour threshold	: No data available
pH	: 8 – 10
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available

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Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Heating may cause a fire.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Keep away from any flames or sparking source. Use non-sparking tools.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

On burning: release of carbon monoxide - carbon dioxide. Metallic oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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Acute toxicity							
Distillates (petroleum), hydrotreated heavy paraffinic							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	>5000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	>5000 mg/kg bw	24h	Rabbit (male/female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	>5.53 mg/l	4H	Rat (male/female)	Experimental value	
titanium dioxide							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	>2000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal						Data waiving	
Inhalation (dust)	LC50	OECD 403	>5.53 mg/l	4H	Rat (male/female)	Experimental value	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	66 mg/kg bw		Rat (male/female)	Experimental value	Calculated by reference to active substance
Dermal	LD50	OECD 402	>141 mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	0.17 mg/l	4H	Rat (male/female)	Experimental value	Calculated by reference to active substance
Conclusion: Not classified for acute toxicity							
Corrosion/irritation							
Distillates (petroleum), hydrotreated heavy paraffinic							
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405	1 seconds	1;24;48;72;168 hours	Rabbit	Experimental value	
Skin	Not irritatins		24 h	24h	Rabbit	Experimental value	
titanium dioxide							
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		1;24;48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	Equivalent to OECD 404	4H	48 hours	Rabbit	Experimental value	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)							
Route of exposure	Resul	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	OECD 405		1;24;48; 72 hrs; 7;14 days	Rabbit	Experimental value	Aqueous solution
Skin	Corrosive	OECD 404	4h		Rabbit	Experimental value	Aqueous solution
Conclusion: Not classified as irritating to the respiratory system							
Respiratory or skin sensitisation							
Distillates (petroleum), hydrotreated heavy paraffinic							
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406	12 h		Guinea pig (male)	Experimental value	
titanium dioxide							
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark

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Skin	Not sensitizing	Equivalent to OECD 429			Mouse (female)	Experimental value		
Inhalation (dust)	Not sensitizing				Mouse (female)	Experimental value		
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)								
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark	
Skin	Sensitizing	OECD 406			Guinea pig (male/female)	Experimental value		
Conclusion: may cause an allergic skin reaction; not classified as sensitizing for inhalation								
Specific target organ toxicity								
Distillates (petroleum), hydrotreated heavy paraffinic								
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	LOAEL	Equivalent to OECD 408	125 mg/kg bw/day	Blood	Change in the haemogram m e/blood composition	13 weeks (5 days/week)	Rat (male)	Read-across
Dermal	NOAEL	OECD 410	1000 mg/kg bw/day		No effect	4 weeks (6h/day, 3 days/week)	Rabbit (male/female)	Experimental value
Dermal	NOAEL	OECD 411	≥ 2000 mg/kg bw/day		No adverse systemic effects	13 weeks (5 days/week)	Rat (male/female)	Experimental value
Dermal	LOAEL	Equivalent to OECD 453	100 mg/kg bw/day		Tumor formation	24 months (2 times/week)	Mouse (male)	Experimental value
Dermal	NOAEL	Equivalent to OECD 410	1000 mg/kg bw/day		No effect	4 weeks (6 h/day, 3 days/week)	Rabbit (male, female)	Experimental value
Inhalation	NOEL	Subacute toxicity test	220 mg/m ³ air		No effect	4 weeks (6h / day, 5 days / week)	Rat (male, female)	Experimental value
Inhalation	NOAEL	Subacute toxicity test	> 980 mg/m ³ air		No adverse systemic effects	4 weeks (6h / day, 5 days / week)	Rat (male/female)	Experimental value
titanium dioxide								
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 408	>1000 mg/kg bw/day		No effect	90 day(s)	Rat (male/female)	Experimental value
Dermal								Data waiving
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)								
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (diet)	NOAEL	OECD 409	22 mg/kg bw/day		No adverse systemic effects	13 week(s)	Dog (male/female)	Experimental value
Dermal	NOAEL systemic effects	EPA OPP 82-3	2.625 mg/kg bw/day		No adverse sytemic effects	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
Dermal	NOAEC local effects	EPA OPP 82-3	0.105 mg/kg bw/day		No effect	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
Inhalation (aerosol)	NOAEC	OECD 412	110 mg/m ³ air		No effect	4 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
Conclusion: not classified for subchronic toxicity								
Mutagenicity (in vitro)								
Distillates (petroleum), hydrotreated heavy paraffinic								
Result	Method	Test substrate	Effect	Value determination	remark			

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Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Chinese hamster ovary (CHE)	No effect	Experimental value				
Negative with metabolic activation, negative without metabolic activation	OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value				
Negative with metabolic activation	Equivalent to OECD 471	Bacteria (S. typhimurium)	No effect	Experimental value				
Titanium dioxide								
Result	Method	Test substrate	Effect	Value determination	remark			
Negative with metabolic activation, negative without metabolic activation	OECD 473	Chinese hamster ovary (CHO)		Experimental value				
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S. typhimurium)		Experimental value				
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)								
Result	Method	Test substrate	Effect	Value determination	remark			
Positive with metabolic activation, positive without metabolic activation	EPA OPP 84-2	Bacteria (S.typhimurium)		Experimental value	Aqueous solution			
Positive with metabolic activation, positive without metabolic activation	EPA OPP 84-2	Mouse (lymphoma L5178Y cells)		Experimental value	Aqueous solution			
Mutagenicity (in vivo)								
Distillates (petroleum), hydrotreated heavy paraffinic								
Result	Method	Exposure time	Test substrate	Organ	Value determination			
Negative	OECD 474		Mouse (male/female)	Bone marrow	Experimental value			
Titanium dioxide								
Result	Method	Exposure time	Test substrate	Organ	Value determination			
Negative (Oral(stomach tube))	EPA OPP 84-2	2 dose(s)/24-hour interval	Mouse (male/female)		Experimental value			
Conclusion: not classified for mutagenic or genotoxic toxicity								
Carcinogenicity								
Distillates (petroleum), hydrotreated heavy paraffinic								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Dermal	LOAEL	Equivalent to OECD 453	100 mg/kg bw/day	24 months (2 times/week)	Mouse (male)	Tumor formation		Experimental value
Dermal		Equivalent to OECD 451		78 week(s)	Mouse (female)	No carcinogenic effects		Experimental value
Titanium dioxide								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation (dust)	NOAEC	OECD 453	5 mg/m ³ air	104 weeks (6h, day, 5 days/week)	Rat (male, female)	No carcinogenic effect	Lungs	Experimental value
Oral (diet)	NOEL	Carcinogenic toxicity study	> 50000 ppm	103 weeks (7 days/week)	Rat (male/female)	No carcinogenic effect		Experimental value
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral (drinking water)	NOEL	OECD 453	300 ppm	24 month(s)	Rat (male, female)	No carcinogenic effect		Experimental value
Conclusion not classified for carcinogenicity								

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Reproductive toxicity								
Distillates (petroleum), hydrotreated heavy paraffinic								
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	≥ 2000 mg/kg bw/day	3 weeks (daily)	Rat (male)	No effect	Foetus	Experimental value
Maternal toxicity	LOAEL	Equivalent to OECD 414	125 mg/kg bw/day	3 weeks (daily)	Rat (female)	Tingling/irritation of the skin	Skin	Experimental value
Effects on fertility	NOAEL (P/F1)	OECD 421	≥ 1000 mg/kg bw/day	30 day(s) – 39 day(s)	Rat (male/female)	No effect		Experimental value
Titanium dioxide								
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	1000 mg/kg bw/day	2 weeks (7 days/week)	rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	1000 mg/kg bw/day	2 weeks (7 days /week)	Rat	No effect		Experimental value
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)								
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	EPA OPP 83-3	≥ 19.6 mg/kg bw/day	10 days (gestation daily)	rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	EPA OPP 83-3	28 mg/kg bw/day	10 days (gestation daily)	Rat	Maternal toxicity		Experimental value
Effects on fertility (Oral (drinking water))	NOAEL	OECD 416	30 ppm	10 week(s)	Rat (male/female)	No effect		
Conclusion: not classified for reprotoxic or developmental toxicity								
Aspiration hazard: not classified for aspiration toxicity								
Toxicity other effects: no (test) data on the mixture available								
Chronic effects from short and long-term exposure: skin rash/inflammation								

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

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Distillates (petroleum), hydrotreated heavy paraffinic								
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	> 100 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental value; lethal
Acute toxicity crustacea	EL50	Equivalent to OECD 202	> 10000 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; locomotor effect
Toxicity algae and other aquatic plants	NOEL	OECD 201	≥ 100 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; cell numbers
Long-term toxicity fish	NOELR	Other	≥ 1000 mg/l	14 day(s)	Oncorhynchus mykiss		Fresh water	QSAR; Lethal
Long-term aquatic crustacea	NOEL	Equivalent to OECD 211	10 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; reproduction
Toxicity aquatic micro-organisms	NOEL	DIN 38412-3	> 1.93 mg/l	10 minutes	Bacteria	Static system	Fresh water	Experimental value
Titanium dioxide								
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	Equivalent to OECD 203	> 100 mg/l	96 h	Oncorhynchus mykiss	Static system	Fresh water	Experimental value; nominal concentration
Acute toxicity crustacea	LC50	Equivalent to OECD 202	> 500 mg/l	48 h	Daphnia magna	Semi-static system	Fresh water	Experimental value; nominal concentration
Toxicity algae and other aquatic plants	ErC50	EPA 600/9-78-018	61 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; nominal concentration
Long-term toxicity fish	NOEC	Equivalent to OECD 212	≥ 1000 mg/l	8 day(s)	Danio rerio	Semi-static system	Fresh water	Experimental value; nominal concentration
Long-term aquatic crustacea	NOEL	OECD 211	≥ 2.92 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Weight of evidence; GLP
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)								
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity crustacea	EC50		0.007 mg/l	48 h	Acartia tonsa		Salt water	Experimental value; GLP
Toxicity algae and other aquatic plants	NOEC	OECD 201	0.49 µg/l	48 h	Skeletonema costatum	Static system	Salt water	Experimental value; growth rate
Conclusion: Harmful to aquatic life with long lasting effects.								

12.2. Persistence and degradability

Distillates (petroleum), hydrotreated heavy paraffinic			
Biodegradation water			
Method	Value	Duration	Value determination
OECD 301B	2 % - 4 %	28 day(s)	Experimental value
OECD 301F	31%	28 day(s)	Experimental value

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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
Biodegradation water			
Method	Value	Duration	Value determination
OECD 301B	47.6 % - 55.8 %; GLP	28 day(s)	Experimental value
Conclusion: contains non readily biodegradable component(s)			

12.3. Bioaccumulative potential

Log Kow					
Method	Remark	Value	Temperature	Value determination	
	Non applicable (mixture)				
Distillates (petroleum), hydrotreated heavy paraffinic					
Log Kow					
Method	Remark	Value	Temperature	Value determination	
	No data available				
Titanium dioxide					
Log Kow					
Method	Remark	Value	Temperature	Value determination	
	No data available				
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)					
BCF-fishes					
Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	41-54; fresh weight	28 day(s)	Lepomis macrochirus	Experimental value
Log Kow					
Method	Remark	Value	Temperature	Value determination	
OECD 107		0.75	24 °C	Experimental value	
Conclusion: contains bioaccumulative component(s)					

12.4. Mobility in soil

Distillates (petroleum), hydrotreated heavy paraffinic						
Percent distribution						
Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	39.93%	0.1%	34.01%	22.09%	3.98%	Calculated value
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)						
(log) Koc						
Parameter	Method	Value	Value determination			
Koc	OECD 106	6.4-10	Experimental value			
Log Koc		0.81-1	Calculated value			
Conclusion: Contains component(s) with potential for mobility in the soil Contains component(s) that adsorb(s) into the soil						

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations. Do not discharge into drains.
European List of Waste (LoW) code : 08 02 99 - wastes not otherwise specified
15 01 02 - plastic packaging

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN
14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

VOC content	Remark
	0.945 g/l

15.1.2. National regulations

National legislation The Netherlands

Waterbezwaarlijkheid	A(3); Algemene Beoordelingsmethodiek (ABM)
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Distillates (petroleum), hydrotreated heavy paraffinic

SZW - Lijst van kankerverwekkende stoffen	(complexe) aardolie- en steenkoolderivaten; Listed in SZW-list of carcinogenic substances
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SZW - Lijst van mutagene stoffen	aardoliegassen en residuen; Listed in SZW-list of mutagenic substances
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National legislation France

titanium dioxide

Catégorie cancérogène	Titane (dioxyde de), en Ti; C2
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National legislation Germany

WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
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Distillates (petroleum), hydrotreated heavy paraffinic

TA-Luft	5.2.5
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Titanium dioxide

TA-Luft	5.2.1
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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

TA-Luft	5.2.5/l
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National legislation Austria

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Gefahr der Sensibilisierung der Haut	5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di-hydroisothiazol-3-on (Gemisch im Verhältnis 3:1); Sh
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National legislation United Kingdom

no data available

Other relevant data

Distillates (petroleum), hydrotreated heavy paraffinic

TLV – Carcinogen	Mineral oil, excluding metal working fluids: Pure, highly and severely refined; A4
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titanium dioxide

TLV – Carcinogen	Titanium dioxide - nanoscale particles; A3
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	Titanium dioxide - finescale particles; A3
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	2B; Titanium dioxide
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15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

Safety Data Sheet (SDS), EU

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.