Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 16.11.2026 Version number 1.00 Revision: 11.09.2026

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

1.1 Product identifier

Trade name: SolidLux Top Coat 810

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

No further relevant information available.

Application of the substance / the mixture

Restricted to professional users.

UV-curable coating

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Lowland Coatings International B.V.
part of
Royal Van Wijhe Verf
Russenweg 14
8041 AL ZWOLLE
THE NETHERLANDS
+31(0)38 - 429 1200
info@solidluxcoating.com

1.4 Emergency telephone number:

NVIC
+31(0)88 755 8000
Only for the purpose of informing medical personnel in case of acute intoxications

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

Additional information:

The full text of the classification and labelling elements mentioned is given in Section 16.

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



GHS07

Signal word Warning

Hazard-determining components of labelling:

3-methyl-1,5-pentanediyl diacrylate
propylidynetrimethanol, ethoxylated, esters with acrylic acid
methyl benzoylformate

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2-Propenoic acid, reaction products with pentaerythritol

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards Exothermic polymerisation.

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

3 Composition/information on ingredients

3.2 Mixtures

Dangerous components:		
	Aliphatic urethane triacrylate oligomer Skin Irrit. 2, H315; Eye Irrit. 2, H319	>25–≤50%
CAS: 64194-22-5 EINECS: 264-727-7 Reg.nr.: 01-2120117435-63	3-methyl-1,5-pentanediyl diacrylate Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1A, H317; STOT SE 3, H335; Aquatic Chronic 3, H412	>10–<25%
CAS: 28961-43-5 NLP: 500-066-5 Reg.nr.: 01-2119489900-30	propylidynetrimethanol, ethoxylated, esters with acrylic acid Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	>10–<25%
	Aliphatic urethane hexaacrylate resin Eye Irrit. 2, H319	>2.5–<10%
CAS: 15206-55-0 EINECS: 239-263-3 Reg.nr.: 01-2120101338-67	methyl benzoylformate Skin Sens. 1, H317	>2.5–≤10%
CAS: 162881-26-7 ELINCS: 423-340-5 Index number: 015-189-00-5 Reg.nr.: 01-2119489401-38	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Skin Sens. 1A, H317; Aquatic Chronic 4, H413	≥1–≤2.5%
CAS: 1245638-61-2 Reg.nr.: 01-2119490003-49	2-Propenoic acid, reaction products with pentaerythritol Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1–<2.5%

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ELINCS: 400-830-7 Index number: 607-176-00-3 Reg.nr.: 01-0000015075-76	Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene) Alternative CAS numbers: 104810-47-1, 104810-48-2 Aquatic Chronic 2, H411; Skin Sens. 1, H317	≥1–<2.5%
CAS: 15625-89-5 EINECS: 239-701-3 Index number: 607-111-00-9 Reg.nr.: 01-2119489896-11	2,2-bis(acryloyloxymethyl)butyl acrylate Carc. 2, H351; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥0.1–<0.25%

Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information:
Take affected persons out into the fresh air.
Keep warm, position comfortably and cover well.
Consult doctor if symptoms persist.

After inhalation:
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Take off contaminated clothing.
If skin irritation continues, consult a doctor.

After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing:
If person is conscious, rinse out mouth.
Do not induce vomiting; call for medical help immediately.

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.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:
Use fire extinguishing methods suitable to surrounding conditions.
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment: Wear fully protective suit.

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Additional information
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
For non-emergency personnel Keep people at a distance and stay on the windward side.
6.2 Environmental precautions:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Keep away from heat and direct sunlight.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Storage: Observe instructions for use / storage.
Requirements to be met by storerooms and receptacles: Store in a well-ventilated place. Keep cool.
Information about storage in one common storage facility: Not required
Further information about storage conditions:
Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
7.3 Specific end use(s) No further relevant information available.

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		
64194-22-5 3-methyl-1,5-pentanediyl diacrylate		
Oral	DNEL Systemic; Long term	0.42 mg/kg bw/24h (Consumers)
Dermal	DNEL Systemic; Long term	0.42 mg/kg bw/24h (Consumers)

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Inhalative	DNEL Systemic; Long term	0.83 mg/kg bw/24h (Workers) 1.45 mg/m³ (Consumers) 5.88 mg/m³ (Workers)

PNECs	
64194-22-5 3-methyl-1,5-pentanediyl diacrylate	
PNEC	0.001 mg/l (Fresh water) 0.0001 mg/l (Marine water) 2.7 mg/l (Sewage treatment plant)
PNEC	0.031 mg/kg (Sediment (fresh water)) 0.0031 mg/kg (Sediment (marine water))
1245638-61-2 2-Propenoic acid, reaction products with pentaerythritol	
PNEC	0.0032 mg/l (Fresh water) 0.032 mg/l (Intermittent releases (fresh water)) 0.00032 mg/l (Marine water) 10 mg/l (Sewage treatment plant)
PNEC	1.73 mg/kg (Sediment (fresh water)) 0.173 mg/kg (Sediment (marine water)) 0.34 mg/kg (Soil)

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

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Respiratory protection:

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Filter A

Hand protection



Protective gloves

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

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Eye/face protection



Tightly sealed goggles

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Liquid
Colour:	Different according to colouring
Odour:	Product specific
Odour threshold:	Not determined
Melting point/freezing point:	Undetermined
Boiling point or initial boiling point and boiling range	>100 °C (64194-22-5 3-methyl-1,5-pentanediyl diacrylate)
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined
Flash point:	>110 °C
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic at 20 °C:	1,141.3–1,592.43 mPas
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density at 20 °C:	1.22–1.24 g/cm³
Relative density	Not determined
Vapour density	Not determined
Particle characteristics	7631-86-9 silicon dioxide, chemically prepared: non-surface-treated nanoforms Shape: Spheroidal Crystallinity: amorphous nanoform

9.2 Other information

Appearance:	
Form:	Viscous
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.

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Solvent content:	
VOC (EC)	0.14 %
Solids content:	99.9 %
Change in condition	
Evaporation rate	Not determined

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability The product is stable.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions Exothermic polymerisation.

10.4 Conditions to avoid Keep away from heat and direct sunlight.

10.5 Incompatible materials: Reacts with acids, alkalis and oxidising agents.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

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.

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	LD50	44,082–183,673 mg/kg (rat)
Inhalative	LC50/4 h	<45.5 mg/l

Aliphatic urethane triacrylate oligomer		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
64194-22-5 3-methyl-1,5-pentanediyl diacrylate		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
28961-43-5 propylidynetrimethanol, ethoxylated, esters with acrylic acid		
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>13,200 mg/kg (rabbit)
15206-55-0 methyl benzoylformate		
Oral	LD50	6,800–10,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
1245638-61-2 2-Propenoic acid, reaction products with pentaerythritol		
Oral	LD50	540–1,350 mg/kg (rat)
Dermal	LD50	4,600 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

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Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure May cause respiratory irritation.
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.

11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

12 Ecological information

12.1 Toxicity

Aquatic toxicity:	
64194-22-5 3-methyl-1,5-pentanediyl diacrylate	
EC10	0.38 mg/l /72h (Pseudokirchneriella subcapitata)
EC20	60 mg/l /30m (Activated sludge)
EC50	1.4 mg/l /72h (Pseudokirchneriella subcapitata)
	2.6 mg/l /48h (daphnia)
LC50	1.234 mg/l /96h (Danio rerio)
28961-43-5 propylidynetrimethanol, ethoxylated, esters with acrylic acid	
EC20	292 mg/l /3h (Activated sludge)
EC50	70.7 mg/l /48h (daphnia)
	2.2 mg/l /72h (Desmodesmus subspicatus)
LC50	1.95 mg/l /96h (Danio rerio)
15206-55-0 methyl benzoylformate	
EC10	39.4 mg/l /72h (Pseudokirchneriella subcapitata)
EC20	540 mg/l /3h (Activated sludge)
EC50	68.6 mg/l /72h (Pseudokirchneriella subcapitata)
	>1,000 mg/l /3h (Activated sludge)
	>39.6 mg/l /48h (daphnia)
LC50	>54.6 mg/l /96h (Danio rerio)
1245638-61-2 2-Propenoic acid, reaction products with pentaerythritol	
EC50	13 mg/l /48h (daphnia)
EL50	33 mg/l /24-96h (Pseudokirchneriella subcapitata)
LC50	3.2 mg/l /96h (Cyprinus carpio)
15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate	
EC10	1.9 mg/l /72h (Scenedesmus subspicatus)
EC50	18.8 mg/l /72h (Scenedesmus subspicatus)
	19.9 mg/l /48h (daphnia)
LC50	0.87 mg/l /96h (Brachydanio rerio)

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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.
12.5 Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable
12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects
Remark: Harmful to fish
Additional ecological information:
General notes:
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms

13 Disposal considerations

13.1 Waste treatment methods
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue	
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP13	Sensitising
HP14	Ecotoxic

Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

14 Transport information

14.1 UN number or ID number
ADR, IMDG, IATA Not regulated.
14.2 UN proper shipping name
ADR, IMDG, IATA Not regulated.
14.3 Transport hazard class(es)
ADR, ADN, IMDG, IATA
Class Not regulated.
14.4 Packing group
ADR, IMDG, IATA Not regulated.
14.5 Environmental hazards: Not applicable
14.6 Special precautions for user Not applicable
14.7 Maritime transport in bulk according to IMO instruments Not applicable
UN "Model Regulation": Not regulated.

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15 Regulatory information

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

Directive 2004/42/EC

Product type: PAINTS AND VARNISHES

• Product subcategory: One-pack performance coatings

· Solvent-borne coatings, Limit value: 500 g/l

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.

REGULATION (EU) 2024/590 on substances that deplete the ozone layer

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57
The product does not contain SVHC ≥ 0.1%

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.

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H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Skin corrosion/irritation Serious eye damage/irritation Skin sensitisation Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	Calculation method

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
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
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4