

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

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

1.1 Product identifier

Trade name : SOLAVEIL™ XT-40W-LQ-(WD)
Product code : TT07649
Registration number : Not available
Substance name : Titanium Dioxide Emulsion

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

Use of the Sub- : Sunscreen ingredient
stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Croda Europe Limited
Cowick Hall, Snaith,
Goole
East Riding of Yorkshire
DN14 9AA
GB
Telephone : +441405860551
Telefax : +441405860205
E-mail address : SDSCompiler@Croda.com

1.4 Emergency telephone number

USA: 24 Hour Emergency Response Information CHEMTREC toll free: 1-800-424-9300; direct/international: 1-703-527-3887. CANADA: Quantum Murray (spill response)1-877-378-7745. CANADA: CANUTEC(collect) 1-613-996-6666. EUROPE: 00 32 3575 5555. ASIA PACIFIC - excl. China: +65 6542-9595. CHINA: +86 21 2315 9344. AUSTRALIA: +61 2 9616 5890. SOUTH AFRICA: +32 3 575 55 55. LATAM: 0800 720 8000. 1-613-996-6666. INDIA: +91 22 30948601/2. JAPAN: +65 6542 9595 (24時間 日本語対応無料通話、シンガポール)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Classification (67/548/EEC, 1999/45/EC)

Sensitising R43: May cause sensitisation by skin contact.

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves.
Response:
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Polyglyceryl-2 Caprate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

May irritate eyes.

May irritate skin.

Ingestion may cause irritation to mucous membranes.

May cause irritation of respiratory tract.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Polyglyceryl-2 Caprate	74504-65-7	Xi; R36/38-R43	2; H315 2; H319 Skin Sens. 1; H317	>= 5 - < 10

For explanation of abbreviations see section 16.

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

SECTION 4: First aid measures

4.1 Description of first aid measures

- If inhaled : If breathed in, move person into fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
If eye irritation persists, consult a specialist.
- If swallowed : If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : None known.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : None known.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.
Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Standard procedure for chemical fires.
Use water spray to cool unopened containers.

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.
Sweep up and shovel into suitable containers for disposal.

6.4 Reference to other sections

None.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Store in original container. Keep container tightly closed in a dry and well-ventilated place.

Advice on common storage : No special restrictions on storage with other products.

Other data : Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : Sunscreen ingredient

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
------------	---------	-------------------------------	--------------------	-------

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

Titanium dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m3	GB EH40
Further information	<p>For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used</p>			
		TWA (Respirable dust)	4 mg/m3	GB EH40
Further information	<p>For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used</p>			
1344-28-1		TWA (inhalable dust)	10 mg/m3	GB EH40
Further information	<p>For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The</p>			

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

	<p>COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used</p>				
	<table border="1"> <tr> <td data-bbox="477 856 649 919"></td> <td data-bbox="654 856 885 919">TWA (Respirable dust)</td> <td data-bbox="889 856 1219 919">4 mg/m³</td> <td data-bbox="1224 856 1403 919">GB EH40</td> </tr> </table>		TWA (Respirable dust)	4 mg/m ³	GB EH40
	TWA (Respirable dust)	4 mg/m ³	GB EH40		
Further information	<p>For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m⁻³ 8-hour TWA of inhalable dust or 4 mg.m⁻³ 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used</p>				

8.2 Exposure controls

Personal protective equipment

- Eye protection : Safety glasses
- Hand protection
Remarks : For prolonged or repeated contact use protective gloves.
- Skin and body protection : impervious clothing
- Respiratory protection : No personal respiratory protective equipment normally required.

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: white
Odour	: No data available
Odour Threshold	: No data available
pH	: No data available
Melting point	: No data available
Boiling point	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: not determined
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

Explosive properties : Classification Code: No data available

Oxidizing properties : No data available

9.2 Other information

Oxidising potential : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 25,000 mg/kg
Remarks: Information refers to the main component.

Acute inhalation toxicity : No data available :

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg
Remarks: Information refers to the main component.

Skin corrosion/irritation

Product:

Species: Humans

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

Exposure time: 48 h
Method: Patch Test 48 Hrs.
Result: No skin irritation
Remarks: The toxicological data has been taken from products of similar composition.

Species: Rabbit
Result: Unlikely to cause skin irritation.
Remarks: Information refers to the main component.

Serious eye damage/eye irritation

Product:

Species: Rabbit
Result: No eye irritation
Remarks: Information refers to the main component.

Respiratory or skin sensitisation

Product:

Species: Humans
Result: Patch test on human volunteers did not demonstrate sensitisation properties.
Remarks: Information refers to the main component.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Information given is based on data on the components.

Carcinogenicity

Product:

Test substance: No data available

Reproductive toxicity

Product:

Effects on fertility : Test substance: No data available

STOT - single exposure

Product:

Assessment: No data available

STOT - repeated exposure

Product:

Assessment: No data available

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

Repeated dose toxicity

Product:

Application Route: Inhalation

Remarks: No adverse effect has been observed in chronic toxicity tests.

Information given is based on data on the components.

Aspiration toxicity

Product:

No data available

Further information

Product:

Remarks: Information taken from reference works and the literature.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC0 (Fish): estimated > 100 mg/l
Exposure time: 48 h
Remarks: Information taken from reference works and the literature.

Toxicity to bacteria : EC0 (Bacteria): estimated > 5,000 mg/l
Exposure time: 48 h
Remarks: Information taken from reference works and the literature.

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: No data available

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

Product:

Environmental fate and pathways : None.

Additional ecological information : Remarks: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 Proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

The components of this product are reported in the following inventories:

- TSCA : This product either contains a chemical substance that is not listed on the public TSCA Inventory or the TSCA Inventory status of the product has not been evaluated. For FDA uses only.
- REACH : On the inventory, or in compliance with the inventory
- DSL : This product contains one or several components that are not on the Canadian DSL nor NDSL.
- IECSC : On the inventory, or in compliance with the inventory

For explanation of abbreviations see section 16.

15.2 Chemical Safety Assessment

This information is not available.

SECTION 16: Other information

Full text of R-Phrases

- R36/38 : Irritating to eyes and skin.
R43 : May cause sensitisation by skin contact.

Full text of H-Statements

- H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.

Full text of other abbreviations

- Skin Sens. : Skin sensitisation

Key or legend to abbreviations and acronyms used in the safety data sheet

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material design-

SOLAVEIL™ XT-40W-LQ-(WD)

Version 2.1

Revision Date 21.05.2015

Print Date 08.06.2015

nated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.