



SAFETY DATA SHEET

SOLCURE WWT

Page: 1

Compilation date: 26/04/2017

Revision No: 1

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

1.1. Product identifier

Product name: SOLCURE WWT

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

Use of substance / mixture: Concrete curing

1.3. Details of the supplier of the safety data sheet

Company name: Solco

Unit 51

Portmanmoor Road Ind Est

Ocean Park

Cardiff

CF24 5HB

United Kingdom

Tel: 02920 495 555

Fax: 02920 491 700

Email: enquiries@solco.co.uk

1.4. Emergency telephone number

Emergency tel: 02920 495 555

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315

Most important adverse effects: Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

2.2. Label elements

Label elements:

Hazard statements: H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Hazard pictograms: GHS07: Exclamation mark

GHS05: Corrosion



[cont...]

SAFETY DATA SHEET

SOLCURE WWT

Page: 2

Signal words: Warning

Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

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 CENTRE or doctor if you feel unwell.

P321: Specific treatment (see instructions on this label)

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

SODIUM SILICATE - REACH registered number(s): 01-2119448725-31-0011

EINECS	CAS	PBT / WEL	CLP Classification	Percent
215-687-4	1344-09-8	-	Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315	10-30%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water.

Inhalation: Not applicable.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: Expected to be slightly irritating.

Ingestion: Material will cause irritation when ingested.

Inhalation: Mist is irritant to the respiratory tract

Immediate effects can be expected after short-term exposure.

Delayed / immediate effects:

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

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SAFETY DATA SHEET

SOLCURE WWT

Page: 3

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel.
Do not attempt to take action without suitable protective clothing - see section 8 of SDS.
Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.
Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

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SAFETY DATA SHEET

SOLCURE WWT

Page: 4

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1 mg/m ³	-	-	-

DNEL/PNEC Values

SOLCURE WWT

Type	Exposure	Value	Population	Effect
DNEL	Dermal (long term)	1.59 mg/kg bw/d	Workers	Systemic
DNEL	Inhalation (long term)	5.61 mg/l	Workers	Systemic
DNEL	Oral (long term)	0.80 mg/kg bw/d	Consumers	Systemic
DNEL	Inhalation (long term)	1.38 mg/m ³	Consumers	Systemic
DNEL	Dermal (long term)	0.80 mg/kg bw/d	Consumers	Systemic
PNEC	Fresh water	7.5 mg/l	-	-
PNEC	Marine water	1 mg/l	-	-
PNEC	Water (intermittent)	7.5 mg/l	-	-
PNEC	Sewagr treatment Plant	348 mg/l	-	-

8.2. Exposure controls

Hand protection: Protective gloves. Rubber gloves. PVA gloves. PVC gloves. Breakthrough time of the glove material > 4 hours.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: The primary hazard of sodium silicate is the alkalinity. Avoid release to the enviroment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Odourless

Evaporation rate: Not applicable.

Oxidising: Not applicable.

Solubility in water: Soluble

Viscosity: Viscous

Boiling point/range°C: >100C

Flammability limits %: lower: Not applicable.

Flash point°C: None

Autoflammability°C: Not applicable.

Relative density: 1.42

VOC g/l: Not applicable.

Melting point/range°C: Not applicable.

upper: Not applicable.

Part.coeff. n-octanol/water: Not applicable.

Vapour pressure: Not applicable.

pH: Alkaline

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SAFETY DATA SHEET

SOLCURE WWT

Page: 5

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Aqueous solutions will react with aluminium, tin, zinc and their alloys evolving hydrogen gas which can form an explosive mixture with air. When arc welding vessels containing aqueous solutions of the material take care to control any explosion risk from hydrogen evolved by electrolysis.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RAT	LC50	>5000	mg/kg bw
Inhalation	RAT	LC50	>2.06	g/m ³

Hazardous ingredients:

SODIUM SILICATE

DERMAL	RBT	LD50	>5000	mg/kg
DUST/MIST	RAT	LC50	>2.06	g/m ³
ORAL	RAT	LD50	3400	mg/kg

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SAFETY DATA SHEET

SOLCURE WWT

Page: 6

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: Expected to be slightly irritating.

Ingestion: Material will cause irritation when ingested.

Inhalation: Mist is irritant to the respiratory tract

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
ZEBRAFISH (Brachydanio rerio)	96H LC50	1108	mg/l
Daphnia magna	48H EC50	1700	mg/l

Hazardous ingredients:

SODIUM SILICATE

Daphnia magna	48H EC50	1700	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	1108	mg/l

12.2. Persistence and degradability

Persistence and degradability: Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Not applicable.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Not applicable.

[cont...]

SAFETY DATA SHEET

SOLCURE WWT

Page: 7

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.