



## SAFETY DATA SHEET

### Sol-X Screenwash Concentrate

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

##### 1.1. Product identifier

**Product name** Sol-X Screenwash Concentrate

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

**Identified uses** Screenwash concentrate

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

**Supplier** Central Solutions (GB) Ltd  
 Sol-X House  
 Windmill Lane  
 Doncaster  
 DN6 9AT  
 England  
 Tel.: +44(0) 1302 708895  
 email: [info@solxsolutions.com](mailto:info@solxsolutions.com) [www.solxsolutions.com](http://www.solxsolutions.com)

##### 1.4. Emergency telephone number

**Emergency telephone** +44(0)1302 708 895

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Flam. Liq. 3 - H226

**Health hazards** Not Classified

**Environmental hazards** Not Classified

**Environmental** The product is not expected to be hazardous to the environment.

**Physicochemical** This product is flammable and burning product will liberate carbon dioxide and possibly carbon monoxide.

##### 2.2. Label elements

###### Pictogram



**Signal word** Warning

**Hazard statements** H226 Flammable liquid and vapour.

## Sol-X Screenwash Concentrate

**Precautionary statements**

P271 Use only outdoors or in a well-ventilated area.  
 P102 Keep out of reach of children.  
 P301 IF SWALLOWED:  
 P315 Get immediate medical advice/ attention.  
 P501 Dispose of contents/ container in accordance with local regulations.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>PROPAN-2-OL</b>			<b>5-10%</b>
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25	
<b>Classification</b>			
Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336			
<b>SODIUM HYDROXIDE</b>			<b>&lt;1%</b>
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27	
<b>Classification</b>			
Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318			

The full text for all hazard statements is displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

**Ingestion** Remove affected person from source of contamination. Rinse mouth thoroughly with water. Keep affected person away from heat, sparks and flames. DO NOT induce vomiting. Get medical attention immediately.

**Skin contact** Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention. Show this Safety Data Sheet to the medical personnel.

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

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** No specific symptoms known.

## Sol-X Screenwash Concentrate

<b>Ingestion</b>	May cause irritation. Sore throat.
<b>Skin contact</b>	Causes mild skin irritation.
<b>Eye contact</b>	May irritate eyes. Redness.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with the following media: Dry chemicals, sand, dolomite etc. Alcohol-resistant foam. Water spray, fog or mist. Carbon dioxide (CO <sub>2</sub> ). Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. The product is flammable.
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### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Use water to keep fire exposed containers cool and disperse vapours. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Use water spray to reduce vapours. Ventilate closed spaces before entering them. Move containers from fire area if it can be done without risk. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.
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<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Avoid contact with skin and eyes.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Turn leaking containers leak-side up to prevent the escape of liquid.
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### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Store in a demarcated bunded area to prevent release to drains and/or watercourses.
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### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.
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### 6.4. Reference to other sections

<b>Reference to other sections</b>	For personal protection, see Section 8. For waste disposal, see Section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

## Sol-X Screenwash Concentrate

**Usage precautions** Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. Use good earthing procedures when decanting from container.

**Advice on general occupational hygiene** Avoid direct contact with the substance.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep container tightly closed, in a cool, well ventilated place.

**Storage class** Unspecified storage. Keep only in the original container.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **PROPAN-2-OL**

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

#### **SODIUM HYDROXIDE**

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

**Ingredient comments** WEL = Workplace Exposure Limits

#### PROPAN-2-OL (CAS: 67-63-0)

**DNEL** Industry - Dermal; Long term systemic effects: 888 mg/kg/day  
 Industry - Inhalation; Long term systemic effects: 500 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term systemic effects: 319 mg/kg/day  
 Consumer - Dermal; Long term systemic effects: 26 mg/kg/day  
 Consumer - Inhalation; Long term systemic effects: 89 mg/m<sup>3</sup>

**PNEC** - Fresh water; 140.9 mg/l  
 - Marine water; 140.9 mg/l  
 - Intermittent release; 140.9 mg/l  
 - Sediment (Freshwater); 552 mg/kg  
 - Sediment (Marinewater); 552 mg/kg  
 - STP; 2251 mg/l  
 - Soil; 28 mg/kg

#### Alcohols, C12-14, ethoxylated (1-2,5 EO), sulphates, sodium salts (CAS: 68891-38-3)

**DNEL** Industry - Dermal; Long term systemic effects: 2750 mg/kg/day  
 Industry - Inhalation; Long term systemic effects: 175 mg/m<sup>3</sup>  
 Consumer - Oral; Long term systemic effects: 15 mg/kg/day  
 Consumer - Dermal; Long term systemic effects: 1650 mg/kg/day  
 Consumer - Inhalation; Long term systemic effects: 52 mg/m<sup>3</sup>

## Sol-X Screenwash Concentrate

<b>PNEC</b>	- Fresh water; 0.24 mg/l
	- Marine water; 0.024 mg/l
	- Intermittent release; 0.071 mg/l
	- Sediment; 5.45 mg/kg
	- Marine water; 0.545 mg/kg
	- Soil; 0.946 mg/kg
	- STP; 10 g/L

### SODIUM HYDROXIDE (CAS: 1310-73-2)

<b>DNEL</b>	Consumer - Inhalation; Long term local effects: 1 mg/m <sup>3</sup>
	Industry - Inhalation; Long term local effects: 1 mg/m <sup>3</sup>

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

### Personal protection

When using do not smoke

### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.

### Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Blue.
<b>Odour</b>	Slight alcoholic.
<b>pH</b>	pH (concentrated solution): 9.3-9.7
<b>Melting point</b>	<0°C
<b>Initial boiling point and range</b>	95°C @
<b>Flash point</b>	32°C Closed cup.
<b>Upper/lower flammability or explosive limits</b>	No information available.

## Sol-X Screenwash Concentrate

<b>Relative density</b>	0.969 @ °C
<b>Solubility(ies)</b>	Soluble in water.
<b>Viscosity</b>	50-100 m <sup>2</sup> /s @ 40°C
<b>Comments</b>	Information given is applicable to the major ingredient.

### 9.2. Other information

<b>Other information</b>	Not available.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 850 g/l.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Does not decompose when used and stored as recommended.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Oxidising agents. Reducing agents.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	Keep away from oxidising materials, heat and flames.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	No information available.
<b>Inhalation</b>	Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.
<b>Eye contact</b>	Irritating to eyes. Vapour or spray in the eyes may cause irritation and smarting. Repeated exposure may cause chronic eye irritation.
<b>Acute and chronic health hazards</b>	Irritating to eyes.
<b>Route of exposure</b>	Inhalation
<b>Target organs</b>	Central nervous system Respiratory system, lungs

## Sol-X Screenwash Concentrate

**Medical symptoms** Arrhythmia (deviation from normal heart beat).

**Medical considerations** Effects may be delayed.

### Toxicological information on ingredients.

#### PROPAN-2-OL

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,840.0

Species Rat

Notes (oral LD<sub>50</sub>) Low order of acute toxicity.

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 16.4

Species Rabbit

Notes (dermal LD<sub>50</sub>) Low order of acute toxicity.

##### Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) 6 hours.

##### Skin corrosion/irritation

Animal data Not irritating.

##### Respiratory sensitisation

Respiratory sensitisation Not available.

##### Germ cell mutagenicity

Genotoxicity - in vitro Negative.

##### Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

**Inhalation** Drowsiness, dizziness, disorientation, vertigo.

**Ingestion** No specific health hazards known.

**Skin contact** No specific health hazards known.

**Eye contact** Irritating to eyes.

#### Alcohols, C12-14, ethoxylated (1-2,5 EO), sulphates, sodium salts

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 2,000.0

Species Rat

##### Acute toxicity - dermal

## Sol-X Screenwash Concentrate

**Acute toxicity dermal (LD<sub>50</sub> 2,000.0 mg/kg)**

**Species** Rat

**Skin corrosion/irritation**

**Animal data** Irritating to eyes. Irritation of eyes and mucous membranes. Irritating to skin. Not a skin sensitiser.

### SODIUM HYDROXIDE

**Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> 2,000.0 mg/kg)**

**Species** Rat

**Skin corrosion/irritation**

**Animal data** Dose: , , Rabbit Corrosive.

**Serious eye damage/irritation**

**Serious eye damage/irritation** Causes serious eye damage. Rabbit

**Inhalation** Vapours may irritate throat/respiratory system. Symptoms following overexposure may include the following: Coughing.

**Ingestion** May cause chemical burns in mouth, oesophagus and stomach.

**Skin contact** Prolonged and frequent contact may cause redness and irritation. Causes burns.

**Eye contact** Severe irritation, burning and tearing. Causes burns.

## SECTION 12: Ecological Information

**Ecotoxicity** Not regarded as dangerous for the environment.

**Ecological information on ingredients.**

### PROPAN-2-OL

**Ecotoxicity** The product is not expected to be hazardous to the environment.

### SODIUM HYDROXIDE

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

#### 12.1. Toxicity

**Toxicity** Not available.

**Ecological information on ingredients.**

### PROPAN-2-OL

**Toxicity** Not available.

**Acute aquatic toxicity**



## Sol-X Screenwash Concentrate

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , : > 1000 mg/l, Daphnia magna 24 hours
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: > 1000 mg/l, Scenedesmus subspicatus
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , : > 1000 mg/l, Activated sludge

### Alcohols, C12-14, ethoxylated (1-2,5 EO), sulphates, sodium salts

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 7.1 mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 7.4 mg/l, Daphnia magna

### SODIUM HYDROXIDE

#### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 55.6 mg/l, Fish LC <sub>50</sub> , 48 hours: 99 mg/l, Lepomis macrochirus (Bluegill) LC <sub>50</sub> , 24 hours: 145 mg/l, Poecilia reticulata (Guppy)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 156 mg/l, Daphnia magna

## 12.2. Persistence and degradability

**Persistence and degradability** Not available.

### Ecological information on ingredients.

#### PROPAN-2-OL

<b>Persistence and degradability</b>	Not available.
<b>Biodegradation</b>	Degradation (%) - Degradation (%) 95: 21 days

#### SODIUM HYDROXIDE

<b>Persistence and degradability</b>	The product is expected to be biodegradable.
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## 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not available.

### Ecological information on ingredients.

#### PROPAN-2-OL

<b>Bioaccumulative potential</b>	Not available.
<b>Partition coefficient</b>	log Pow: 0.05

#### SODIUM HYDROXIDE

## Sol-X Screenwash Concentrate

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** Not known.

### Ecological information on ingredients.

#### PROPAN-2-OL

**Mobility** Not known.

**Adsorption/desorption coefficient** Water - Koc: ~ 1.1 @ °C

**Henry's law constant** 0.00000338 atm m<sup>3</sup>/mol @ 25°C

#### SODIUM HYDROXIDE

**Mobility** The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** Not available.

### Ecological information on ingredients.

#### PROPAN-2-OL

**Results of PBT and vPvB assessment** Not available.

#### SODIUM HYDROXIDE

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** Not available.

### Ecological information on ingredients.

#### PROPAN-2-OL

**Other adverse effects** Not available.

#### SODIUM HYDROXIDE

**Other adverse effects** Not determined.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Avoid the spillage or runoff entering drains, sewers or watercourses. Dispose in a regulated landfill site or other method for hazardous or toxic waste.

## **SECTION 14: Transport information**

## Sol-X Screenwash Concentrate

### 14.1. UN number

UN No. (ADR/RID)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	FLAMMABLE LIQUID, N.O.S. (PROPAN-2-OL)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (PROPAN-2-OL)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (PROPAN-2-OL)
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S. (PROPAN-2-OL)

### 14.3. Transport hazard class(es)

No transport warning sign required.

ADR/RID class	3
ADR/RID label	3
IMDG class	3
ICAO class/division	3

#### Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### 14.6. Special precautions for user

EmS	F-E, S-D
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

## Sol-X Screenwash Concentrate

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

<b>National regulations</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
<b>EU legislation</b>	Commission Regulation (EU) No 453/2010 of 20 May 2010.
<b>Guidance</b>	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>Revision comments</b>	Supplemental information added.
<b>Revision date</b>	15/02/2018
<b>Revision</b>	3
<b>SDS number</b>	11072
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.