

**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SURFACE-SAN 30L CONC

**Page:** 1  
**Compilation date:** 12.03.2020  
**Revision date:** 25.03.20  
**Revision No:** 3

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

**1.1. Product identifier**

**Product name:** DUPLEX HYDROSAN  
**Product code:** HC1669  
**Synonyms:** HC1669  
CONCENTRATED LEMON DISINFECTANT

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

**Use of substance / mixture:** FOR PROFESSIONAL AND INDUSTRIAL USE ONLY. Water based disinfectant and cleaner.

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

**Company name:** LIQUID SCIENCE SOLUTIONS LIMITED

Supplied by:-  
Duplex Cleaning Machines UK Ltd  
Unit 27 Joseph Wilson Ind Est  
Whitstable  
Kent  
CT5 3PS

**Tel:** 01227 771276  
**Fax:** 01227 770220  
**Email:** Info@duplex-cleaning.com

**1.4. Emergency telephone number**

**Emergency tel:** 0777 342 9963

**Section 2: Hazards identification**

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

**Classification under CLP:** Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; -: EUH208

**Most important adverse effects:** Contains perfume sharpe lemon 13264 (containing citral,citronellol,geraniol,limonene,linalool). May produce an allergic reaction. Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** EUH208: Contains perfume sharpe lemon 13264 (containing citral,citronellol,geraniol,limonene,linalool). May produce an allergic reaction.

**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SURFACE-SAN 30L CONC

Page: 2

H315: Causes skin irritation.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

**Hazard pictograms:** GHS05: Corrosion

GHS09: Environmental



**Signal words:** Danger

**Precautionary statements:** P102: Keep out of reach of children.

P260: Do not breathe spray.

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

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Haz. ingredients (label):** Contains:

ALKYL BENZYL AMMONIUM CHLORIDE; ALCOHOLS, C12-14, ETHOXYLATED;  
PERFUME (CONTAINING CITRAL, CITRONELLOL, GERANIOL, LIMONENE, LINALOOL)

**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:**

ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE - REACH registered number(s): 01-2119970550-39-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
939-350-2	-	-	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 2: H411	1-10%

ALCOHOLS, C12-14, ETHOXYLATED

-	68439-50-9	-	Eye Dam. 1: H318; Aquatic Chronic 3: H412	<1%
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**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SURFACE-SAN 30L CONC

Page: 3

PERFUME SHARPE LEMON 13264 (CONTAINING CITRAL,CITRONELLOL,GERANIOL,LIMONENE,LINALOOL)

-	BLEND	-	Flam. Liq. 3: H226; Skin Sens. 1B: H317; Aquatic Chronic 1: H410; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Asp. Tox. 1: H304; -: EUH208	<1%
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#### 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. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

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

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

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

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

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

#### Section 5: Fire-fighting measures

##### 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. Water based product. Advice relates to dry residues after water has evaporated.

##### 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.

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**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SURFACE-SAN 30L CONC

Page: 4

**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. Wash the spillage site with large amounts of water.

**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**

**Workplace exposure limits:** No data available.

**DNEL/PNEC Values**

**DNEL / PNEC** No data available.

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Protective gloves.

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

**Skin protection:** Protective clothing.

**Section 9: Physical and chemical properties**

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**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SURFACE-SAN 30L CONC

Page: 5

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

**State:** Liquid

**Colour:** Yellow

**Odour:** Citrus/lemon.

**Evaporation rate:** Slow

**Solubility in water:** Highly soluble

**Viscosity:** Non-viscous

**Boiling point/range°C:** 100

**Melting point/range°C:** 0

**Flammability limits %: lower:** Not applicable.

**upper:** Not applicable.

**Flash point°C:** Not applicable.

**Part.coeff. n-octanol/water:** No data available.

**Autoflammability°C:** Not applicable.

**Vapour pressure:** Not applicable.

**Relative density:** 1.010

**pH:** 10 - 11

**VOC g/l:** 0

**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.

**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidising agents. Strong acids.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

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**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SURFACE-SAN 30L CONC

Page: 6

**Hazardous ingredients:**

**ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE**

DERMAL	RAT	LD50	1560	mg/kg
ORL	RAT	LD50	795	mg/Kg

**ALCOHOLS, C12-14, ETHOXYLATED**

DERMAL	RBT	LD50	2000	mg/kg
ORAL	RAT	LD50	2000	mg/kg

**PERFUME SHARPE LEMON 13264 (CONTAINING CITRAL,CITRONELLOL,GERANIOL,LIMONENE,LINALOOL)**

DERMAL	HMN	LD50	>5000	mg/kg
ORAL	HMN	LD50	>5000	mg/kg
VAPOURS	HMN	LD50	>5000	mg/kg

**Relevant hazards for product:**

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

**Symptoms / routes of exposure**

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

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

**Section 12: Ecological information**

**12.1. Toxicity**

**Hazardous ingredients:**

**ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE**

DAPHNIA	48H EC50	0.03	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	1.7	mg/l

**12.2. Persistence and degradability**

**Persistence and degradability:** Biodegradable. The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

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**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SURFACE-SAN 30L CONC

Page: 7

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No bioaccumulation potential.

**12.4. Mobility in soil**

**Mobility:** Readily absorbed into soil. Volatile. Soluble in water.

**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:** Very toxic to aquatic organisms.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** The product will not be dangerous to the environment when diluted in waste water systems and may be disposed of as low-hazard chemical waste within the scope of national and local regulations/permits.

**Recovery operations:** Not applicable.

**Waste code number:** 20 01 30

**Disposal of packaging:** Dispose of as normal industrial waste. Clean with water.

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

**Section 14: Transport information**

**14.1. UN number**

**UN number:** UN3082

**14.2. UN proper shipping name**

**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**14.3. Transport hazard class(es)**

**Transport class:** 9

**14.4. Packing group**

**Packing group:** III

**14.5. Environmental hazards**

**Environmentally hazardous:** Yes

**Marine pollutant:** No

**14.6. Special precautions for user**

**Special precautions:** No special precautions.

**Tunnel code:** -

**Transport category:** 3

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**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SURFACE-SAN 30L CONC

Page: 8

**Section 15: Regulatory information**

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

**Specific regulations:** Detergents EC 648/2004 (ammended)(biodegradability), articles 4, 9

**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.

Detergent Regulations EC648/2004, the product contains amongst other ingredients:-

Amphoteric surfactants <5%

Cationic surfactants <5%

Non-Ionic surfactants <5%

Perfumes

Disinfectants

IMPORTANT NOTE:

Risk phases in this section below relate to the INDIVIDUAL COMPONENTS in the formulation when used at their FULL CONCENTRATIONS, and not at the reduced levels in the mixed product.

See sections 2 and 3 for the calculated hazard and risk phrases for the blended product.

**Phrases used in s.2 and s.3:** EUH208: Contains Citral,Citronellol,Geraniol,Limonene,Linalool. May produce an allergic reaction.

EUH208: Contains perfume sharpe lemon 13264 (containing citral,citronellol,geraniol,limonene,linalool). May produce an allergic reaction.

H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

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.

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**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SURFACE-SAN 30L CONC

**Page: 9**

**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. For professional and industrial use only.