

**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SHOWERHEAD CLEANER

**Page:** 1  
**Compilation date:** 06.08.09  
**Revision date:** 07.09.20  
**Revision No:** 7

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

**1.1. Product identifier**

**Product name:** (LIQUID SCIENCE) SHOWERHEAD CLEANER

**Product code:** HC0926

**Synonyms:** HC0926 / LSL / SHC

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

**Use of substance / mixture:** Water based acid liquid descaler and cleaner.

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

**Company name:** LIQUID SCIENCE SOLUTIONS LIMITED

Bentley Wood Way  
Network 65 Business Park  
Hapton, Burnley  
Lancashire  
BB11 5ST

**Tel:** 01282 831251

**Fax:** 01282 450456

**Email:** info@liquidscience.co.uk

**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 Irrit. 2: H319; Skin Irrit. 2: H315

**Most important adverse effects:** Causes skin irritation. Causes serious eye irritation.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** H315: Causes skin irritation.

H319: Causes serious eye irritation.

**Hazard pictograms:** GHS07: Exclamation mark



**Signal words:** Warning

**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SHOWERHEAD CLEANER

Page: 2

**Precautionary statements:** P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P260: Do not breathe spray.  
P262: Do not get in eyes, on skin, or on clothing.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
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.  
P311: Call medical advise.  
P302+P352: IF ON SKIN: Wash with plenty of water.

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

**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:**

SULPHAMIC ACID - REACH registered number(s): 01-2119488633-28-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
226-218-8	5329-14-6	-	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Aquatic Chronic 3: H412	10-30%

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

939-350-2	-	-	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 2: H411	<1%
-----------	---	---	---	-----

BRONOPOL (INN)

200-143-0	52-51-7	-	Acute Tox. 4: H312; Acute Tox. 4: H302; STOT SE 3: H335; Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Acute 1: H400	<1%
-----------	---------	---	--	-----

**Non-classified ingredients:**

MELPASS HEDP60

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	-	-	Met. Corr. 1: H290; Eye Dam. 1: H318; Acute Tox. 4: H302	<1%

[cont...]

**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SHOWERHEAD CLEANER

Page: 3

DIMETHYL C12-C14 ALKYL BETAINES - REACH registered number(s): 01-2119529251-48-XXXX

931-700-2	-	-	Skin Corr. 1B: H314; Eye Dam. 1: H318; Aquatic Chronic 3: H412	<1%
-----------	---	---	--	-----

#### 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.

**Ingestion:** Wash out mouth with water.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours.

##### 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:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

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

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

**Immediate / special treatment:** Not applicable.

#### 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.

#### Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. 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. Warning relates to a large spillage, not a single bottle.

[cont...]

**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SHOWERHEAD CLEANER

Page: 4

**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.  
Single bottle spillage: wash down the drain with a large amount 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**

**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**

**Respiratory protection:** Respiratory protection not required.  
**Hand protection:** Protective gloves.  
**Eye protection:** Safety glasses. Ensure eye bath is to hand.  
**Skin protection:** Protective clothing.

**Section 9: Physical and chemical properties**

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

<b>State:</b> Liquid	
<b>Colour:</b> Green	
<b>Odour:</b> Barely perceptible odour	
<b>Evaporation rate:</b> Slow	
<b>Solubility in water:</b> Highly soluble	
<b>Viscosity:</b> Non-viscous	
<b>Boiling point/range°C:</b> 100	<b>Melting point/range°C:</b> 0
<b>Flammability limits %: lower:</b> Not applicable.	<b>upper:</b> Not applicable.
<b>Flash point°C:</b> Not applicable.	<b>Part.coeff. n-octanol/water:</b> No data available.
<b>Autoflammability°C:</b> Not applicable.	<b>Vapour pressure:</b> Not applicable.
<b>Relative density:</b> 1.080	

[cont...]

**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SHOWERHEAD CLEANER

Page: 5

pH: 2 - 3

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. Strong bases.

**10.6. Hazardous decomposition products**

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

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Hazardous ingredients:**

**SULPHAMIC ACID**

ORAL	RAT	LD50	3160	mg/kg
------	-----	------	------	-------

**ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE**

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

**BRONOPOL (INN)**

ORL	MUS	LD50	270	mg/kg
ORL	RAT	LD50	180	mg/kg

[cont...]

**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SHOWERHEAD CLEANER

Page: 6

SKN	MUS	LD50	4750	mg/kg
SKN	RAT	LD50	1600	mg/kg

**Non-classified ingredients:**

**MELPASS HEDP60**

ORL	RAT	LD50	2400	mg/Kg
-----	-----	------	------	-------

**DIMETHYL C12-C14 ALKYL BETAINES**

ORL	RAT	LD50	>2000	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 mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

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

**Section 12: Ecological information**

**12.1. Toxicity**

**Hazardous ingredients:**

**SULPHAMIC ACID**

FISH	96H LC50	70.3	mg/l
------	----------	------	------

**ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE**

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

**MELPASS HEDP60**

RAINBOW TROUT ( <i>Oncorhynchus mykiss</i> )	48H EC50	878	mg/l
<i>Oncorhynchus mykiss</i>	96H LC50	300	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.

[cont...]

**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SHOWERHEAD CLEANER

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:** Negligible ecotoxicity.

**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**

**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.

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

Amphoteric surfactants <5%

Cationic surfactants <5%

Phosphonates <5%

[cont...]

**SAFETY DATA SHEET**  
(LIQUID SCIENCE) SHOWERHEAD CLEANER

Page: 8

Disinfectants

IMPORTANT NOTE:

Risk phrases 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:** H290: May be corrosive to metals.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

**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.