

**SAFETY DATA SHEET****Liquid Rod****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name** Liquid Rod

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

**Identified uses** Drain Unblocker

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

**Supplier** Aztec Chemicals  
Unit 16, University Way  
Orion Park  
Crewe  
Cheshire  
CW1 6NG  
+ 44 (0) 1270 655500 (T)  
+ 44 (0) 1270 655501 (F)  
info@aztecchemicals.com

**1.4. Emergency telephone number**

**Emergency telephone** +44 (0)7831 300868

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Not Classified

**Health hazards**

Skin Corr. 1A - H314

**Environmental hazards**

Not Classified

**Classification (67/548/EEC or 1999/45/EC)**

C;R35.

**2.2. Label elements****Pictogram**

**Signal word** Danger

**Hazard statements**

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

## Liquid Rod

P260 Do not breathe vapour/spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 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.  
 P405 Store locked up.  
 P102 Keep out of reach of children.  
 P501 Dispose of contents/container in accordance with local regulations.  
 P315 Get immediate medical advice/attention.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P331 Do NOT induce vomiting.  
 P303 IF ON SKIN (or hair):  
 P361 Take off immediately all contaminated clothing.  
 P352 Wash with plenty of water.  
 P312 Call a POISON CENTER/doctor if you feel unwell.

### Contains

SULPHURIC ACID ...%

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

SULPHURIC ACID ...%	60-100%
CAS number: 7664-93-9 EC number: 231-639-5 REACH registration number: 01-2119458838-20	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Corr. 1A - H314	C;R35

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Never give anything by mouth to an unconscious person. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Causes severe skin burns and eye damage. Corneal damage. Irritation and redness, followed by blurred vision. Prolonged contact may cause redness, irritation and dry skin.

#### Inhalation

Remove affected person from source of contamination. Rinse nose and mouth with water. If breathing stops, provide artificial respiration. Never give anything by mouth to an unconscious person. Do not induce vomiting. Keep affected person warm and at rest. Get medical attention immediately. Symptoms following overexposure may include the following: Coughing, chest tightness, feeling of chest pressure. Congestion of the lungs may occur, producing severe shortness of breath.

#### Ingestion

Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Never give anything by mouth to an unconscious person. Get medical attention immediately. Do not induce vomiting. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. There may be irritation and redness. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Rinse immediately with plenty of water. Get medical attention. Show this Safety Data Sheet to the medical personnel. Blistering may occur. Causes severe skin burns and eye damage. Wash clothing and clean shoes thoroughly before reuse.

#### Eye contact

SPEED IS ESSENTIAL. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Show this Safety Data Sheet to the medical personnel. Causes severe skin burns and eye damage.

## Liquid Rod

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

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

#### **Notes for the doctor**

The patient should be kept under medical review for at least 48 hours as delayed pulmonary oedema can develop.

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## **SECTION 5: Firefighting measures**

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### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Flood fire with water from a distance. Keep containers cool by spraying with water. Care should be taken not to splatter or splash this material.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

If diluted to 70% or less and allowed to come into contact with metallic surfaces, hydrogen will be rapidly liberated, this then will produce a fire and explosion risk when combined with air. Toxic oxides of sulphur liberated on thermal decomposition e.g. sulphur trioxide. Contact with metals may form explosive hydrogen gas.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Do not put a solid stream of water onto spilled material as this will cause a violent reaction. Do not absorb with sawdust. Avoid the spillage or runoff entering drains, sewers or watercourses.

#### **Special protective equipment for firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## **SECTION 6: Accidental release measures**

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

#### **Personal precautions**

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. No smoking, sparks, flames or other sources of ignition near spillage.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Contain spillage with sand, earth or other suitable non-combustible material. Do not 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.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Small Spillages: Neutralise spilled material with crushed limestone, soda ash or lime. Inform authorities if large amounts are involved. Do not touch or walk into spilled material. Absorb in vermiculite, dry sand or earth and place into containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

### **6.4. Reference to other sections**

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## **SECTION 7: Handling and storage**

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### **7.1. Precautions for safe handling**

#### **Usage precautions**

Read and follow manufacturer's recommendations. Contaminated clothing and shoes must be discarded. Eye wash facilities and emergency shower must be available when handling this product. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using this product. Provide adequate ventilation. Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Never add water to this product. Reacts violently with water.

#### **Advice on general occupational hygiene**

### Liquid Rod

Wash promptly with soap and water if skin becomes contaminated.

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

##### Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from the following materials: Oxidising materials. Reducing agents.

##### Storage class

Corrosive storage.

#### 7.3. Specific end use(s)

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### SULPHURIC ACID ...%

Long-term exposure limit (8-hour TWA): WEL 0,05 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

DNEL	Industry - Inhalation; Short term local effects: 0.1 mg/m <sup>3</sup> Industry - Inhalation; Long term local effects: 0.05 mg/m <sup>3</sup>
PNEC	- Fresh water; 0.0025 mg/l - Marine water; 0.00025 mg/l - Water ; 8.8 mg/l - Sediment (Freshwater); 0.002 mg/kg - Marine water; 0.0002 mg/kg

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Provide eyewash station. Avoid inhalation of vapours.

##### 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. The following protection should be worn: Chemical splash goggles and face shield.

##### Hand protection

Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber).

##### Other skin and body protection

Wear rubber apron. Wear rubber footwear.

##### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

##### 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

##### Appearance

## Liquid Rod

Clear liquid.

### Colour

Colourless. to Brown.

### Odour

Characteristic.

### pH

pH (concentrated solution): <1

### Melting point

-10°C

### Initial boiling point and range

200°C @ 80% H<sub>2</sub>SO<sub>4</sub>

### Flash point

None°C

### Relative density

~ 1.69 (77% H<sub>2</sub>SO<sub>4</sub>) @ °C

### Solubility(ies)

Soluble in water.

## 9.2. Other information

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### SECTION 10: Stability and reactivity

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#### 10.1. Reactivity

#### 10.2. Chemical stability

##### Stability

Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

#### 10.4. Conditions to avoid

Reacts strongly with water. Reacts with alkalis and generates heat. Avoid heat, flames and other sources of ignition.

#### 10.5. Incompatible materials

##### Materials to avoid

Other metals or alloys. Inorganic nitrates. Non-metallic halogen. Organic nitro compounds. Organic cyanides (nitriles). Inorganic sulphides. Alkalis - inorganic. Water, steam, water mixtures. Flammable/combustible materials.

#### 10.6. Hazardous decomposition products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Sulphur. When water is added, the product reacts with a number of metals forming hydrogen gas, which may form explosive vapour/air mixtures.

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### SECTION 11: Toxicological information

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#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

##### Acute toxicity oral (LD<sub>50</sub> mg/kg)

2,140.0

##### Species

Rat

##### ATE oral (mg/kg)

2,140.0

##### Inhalation

Vapours are corrosive. Symptoms following overexposure may include the following: Shortness of breath. Lung oedema.

## Liquid Rod

Development of symptoms may be delayed for 24 to 48 hours.

### Ingestion

Corrosive. Small amounts may cause serious damage. Causes severe burns. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

### Skin contact

Corrosive. Prolonged contact causes serious tissue damage. Contains components which may penetrate the skin.

### Eye contact

This product is strongly corrosive. Causes severe skin burns and eye damage. Immediate first aid is imperative. Vapour or spray may cause eye damage, impaired sight or blindness.

### Acute and chronic health hazards

Causes burns. This product is corrosive.

### Route of entry

Inhalation Skin absorption Ingestion. Skin and/or eye contact

### Target organs

Eyes Mucous membranes Respiratory system, lungs Skin Gastro-intestinal tract

### Medical symptoms

Irritation, burning, lachrymation, blurred vision after liquid splash. Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

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## SECTION 12: Ecological Information

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### Ecotoxicity

The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

#### 12.1. Toxicity

##### Acute toxicity - fish

LC<sub>50</sub>, 96 hours: 42 mg/l, Fish

##### Acute toxicity - aquatic invertebrates

EC<sub>50</sub>, 48 hours: 29 mg/l, Daphnia magna

#### 12.2. Persistence and degradability

##### Persistence and degradability

The product is biodegradable.

#### 12.3. Bioaccumulative potential

The product is not bioaccumulating.

#### 12.4. Mobility in soil

##### Mobility

The product is soluble in water.

#### 12.5. Results of PBT and vPvB assessment

#### 12.6. Other adverse effects

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## SECTION 13: Disposal considerations

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#### 13.1. Waste treatment methods

##### General information

Larger quantities should be treated in a suitable plant or disposed of via a licensed waste disposal contractor.

##### Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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## SECTION 14: Transport information

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#### 14.1. UN number

UN No. (ADR/RID) 1830

**Liquid Rod**

UN No. (IMDG) 1830

UN No. (ICAO) 1830

**14.2. UN proper shipping name**

Proper shipping name (ADR/RID) SULPHURIC ACID

Proper shipping name (IMDG) SULPHURIC ACID

Proper shipping name (ICAO) SULPHURIC ACID

Proper shipping name (ADN) SULPHURIC ACID

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

ADR/RID class 8

ADR/RID subsidiary risk

ADR/RID label 8

IMDG class 8

IMDG subsidiary risk

ICAO class/division 8

ICAO subsidiary risk

Transport labels

**14.4. Packing group**

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

No.

**14.6. Special precautions for user**

EmS F-A, S-B

Emergency Action Code 2P

Hazard Identification Number (ADR/RID) 80

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code****SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

**EU legislation**

Commission Regulation (EU) No 453/2010 of 20 May 2010.

**Guidance**

Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

## Liquid Rod

### 15.2. Chemical safety assessment

#### SECTION 16: Other information

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<b>Revision date</b>	14/01/2015
<b>Revision</b>	1
<b>SDS number</b>	10469
<b>SDS status</b>	Approved.
<b>Risk phrases in full</b>	R35 Causes severe burns.
<b>Hazard statements in full</b>	H314 Causes severe skin burns and eye damage.

#### Disclaimer

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.