SAFETY DATA SHEET
Sulphuric Acid 15 - 50%

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Sulphuric Acid 15 - 50%

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

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

+44 (0)7831 300868

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) C;R35.

2.2. Label elements

Contains SULPHURIC ACID 50%

Labelling

Corrosive

Risk Phrases

R35	Causes severe burns.

Safety Phrases

S1/2	Keep locked up and out of the reach of children.
S20	When using do not eat or drink.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27/28	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
S30	Never add water to this product.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Sulphuric Acid 15 - 50%

SULPHURIC ACID ...%		**30-60%**
CAS-No.: 7664-93-9	**EC No.: 231-639-5**	**Registration Number: 01-2119458838-20**

Classification (EC 1272/2008)	Classification (67/548/EEC)
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

Do not give victim anything to drink if they are unconscious.

Inhalation

Remove victim immediately from source of exposure. Rinse nose and mouth with water. Perform artificial respiration if breathing has stopped. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention immediately! DO NOT INDUCE VOMITING!

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Flush immediately with plenty of water and remove contaminated clothing. Call an ambulance, continue to rinse during transportation to hospital and bring these instructions.

Eye contact

SPEED IS ESSENTIAL. Immediately flush with plenty of water. Remove any contact lenses and open eyes wide apart. Call an ambulance and continue flushing during transportation to hospital. Bring these instructions.

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

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

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

Corrosive.

Specific hazards

When heated and in case of fire, corrosive vapours/gases may be formed.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Do not put a solid stream of water onto spilled material as this will cause a violent reaction. Do not absorb with sawdust.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke, use open fire or other sources of ignition.

6.2. Environmental precautions

Contain spillages with sand, earth or any suitable adsorbent material.

6.3. Methods and material for containment and cleaning up

Small Spillages: Neutralise spilled material with crushed limestone, soda ash or lime. Inform Authorities if large amounts are involved.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Read and follow manufacturer's recommendations. Avoid direct contact with the substance. Avoid contact with naked flames and hot surfaces as corrosive and toxic decomposition products can be formed. Provide good ventilation. Avoid inhalation of vapours and spray mists. Never add water directly to this product - may cause vigorous reaction/boiling. Always dilute by carefully pouring the product into the water.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
SULPHURIC ACID ...%	WEL		0,05 mg/m3			

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment


Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

In case of inadequate ventilation use suitable respirator.

Hand protection

Wear protective gloves. Gloves of nitrile rubber, PVA or Viton are recommended.

Eye protection

Use safety goggles and face shield in case of splash risk.

Other Protection

Wear rubber apron. Wear rubber footwear. Provide eyewash station.

Hygiene measures

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

Personal protection

When using do not smoke

Skin protection

Wear apron or protective clothing in case of splashes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless. to Brown.
Odour	Odourless.
Solubility	Soluble in water.
Relative density	1.4 (50%)

pH-Value, Conc. Solution	<1
Flash point (°C)	None

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Reacts strongly with water. Reacts with alkalis and generates heat.

10.5. Incompatible materials

Materials To Avoid

Can react violently if in contact with water, liberating excessive heat. Highly reactives with metals and organic materials. On contact with metals, may generate hydrogen which forms explosive mixtures with air. DO NOT MIX WITH ANY OTHER CHEMICALS.

10.6. Hazardous decomposition products

Fire creates: Very toxic gases/vapours/fumes of: Sulphurous gases (SOx).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

Vapours are corrosive. After 24-36 hours, injured persons may develop serious shortness of breath and lung oedema. Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

Ingestion

Corrosive. Even 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.

Eye contact

Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative. Vapour or spray may cause eye damage, impaired sight or blindness.

Health Warnings

Causes burns. This substance is corrosive.

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.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

12.1. Toxicity

12.2. Persistence and degradability

Sulphuric Acid 15 - 50%

Degradability

The product contains inorganic compounds which are not biodegradable. The other substances of the product are slowly biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product is not bioaccumulating.

12.4. Mobility in soil

Mobility:

Although highly soluble, sulphuric acid may layer across the bottom surface of the water body. This effect may be more pronounced where there is little potential to be mixed by natural turbulence.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General	Shipment not allowed by mail.

14.1. UN number

UN No. (ADR/RID/ADN)	1830
UN No. (IMDG)	1830
UN No. (ICAO)	1830

14.2. UN proper shipping name

Proper Shipping Name	SULPHURIC ACID ...%

14.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No.	8
IMDG Class	8
ICAO Class/Division	8

Transport Labels

14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

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14.6. Special precautions for user

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

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

SDS No.	11165
Safety Data Sheet Status	Approved.
Date	10.05.2013

Risk Phrases In Full

R35	Causes severe burns.

Hazard Statements In Full

H314	Causes severe skin burns and eye damage.