

SAFETY DATA SHEET

SULPHURIC ACID BATTERY QUALITY 1140 - 1400 SG (15-50%)

msua104

1. Identification of the substance/preparation and of the company/undertaking

Product name : **SULPHURIC ACID BATTERY QUALITY 1140 - 1400 SG (15-50%)**
Supplier : Albion Chemical Distribution
 Rawdon House
 Green Lane
 Yeadon
 Leeds
 LS19 7XX

Chemical product name : SULPHURIC ACID BATTERY
 QUALITY 1140 - 1400 SG (15-50%)

Synonyms : SULPHURIC ACID BATTERY
 QUALITY 1140 - 1400 SG (15-50%)

EMERGENCY ONLY TELEPHONE NUMBER : (N.C.E.C. CULHAM) 01865 407333
 Telephone No. : (0113) 2505811

Formula : H₂SO₄
Fax No. : (0113) 2508776
 Molecular Mass : 98.07

2. Composition/information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) SULPHURIC ACID BATTERY QUALITY 1140 - 1400 SG (15-50%)	7664-93-9	100	231-639-5	C	R35

* Occupational Exposure Limit(s), if available, are listed in Section 8

Composition : AQUEOUS SOLUTIONS OF SULPHURIC ACID INCLUDING ALL GRADES BETWEEN 1140(10%) - 1400(50%).
CAS No. : 7664-93-9
EINECS Number : 231-639-5

3. Hazards identification

Human health hazards : Causes severe burns.

4. First-aid measures

First-Aid measures

Inhalation : Remove from exposure. If breathing stops or shows signs of failing, give artificial respiration. Obtain medical attention urgently. Keep warm and at rest. If there is difficulty in breathing, give oxygen. Do not use mouth to mouth ventilation.

Ingestion : Wash out mouth with water. Give sips of cold water or milk to soothe the affected parts. Ingested acid must be diluted by approximately x 100, to render harmless to tissues. Do not induce vomiting. Obtain medical attention.

Skin contact : Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing as washing proceeds. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

Eye Contact : Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.

Effects and symptoms

Inhalation : Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Overexposure by inhalation may cause respiratory irritation.

Ingestion : May be fatal if swallowed. May cause burns to mouth, throat and stomach.

Skin contact : Corrosive to skin on contact. Skin contact may produce burns.

Eye Contact : Corrosive to eyes.

Aggravating conditions : Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection.

5. Fire-fighting measures

Extinguishing Media

- Suitable** : Keep containers and surroundings cool with water spray. Water must not enter tanks or containers. Select extinguishing agent appropriate to other materials involved.
- Unusual fire/explosion Hazards** : Hazardous Combustion Products : SULPHUR DIOXIDE
- This product may give rise to hazardous fumes in a fire. Violent reaction with water generates heat and may cause an explosion.
- Hazardous thermal (de)composition products** : Attacks many metals liberating hydrogen gas.
Combustion will generate: oxides of sulphur.
- Special fire-fighting procedures** : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.
- Protection of fire-fighters** : Wear full protective clothing and self-contained breathing apparatus.

6. Accidental release measures

- Personal Precautions** : Ventilate the area to dispel possible toxic decomposition fumes. Wear appropriate protective clothing.
- Environmental precautions and cleanup methods** : Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.
- : Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

7. Handling and storage

- Handling** : Use in well ventilated area. Avoid inhaling vapour. Avoid contact with eyes, skin and clothing. Emergency shower and eye wash facilities should be readily available.
- Storage** : Storage area should be: cool, under cover, well ventilated. Stock tanks should be banded separately, away from organic substances such as wood, paper and straw and other reactive chemicals. Avoid water or steam from entering the container at all times- see conditions to avoid. Store in rubber-lined tanks for acid concentrations less than 70%. Suitable storage materials are:- PTFE, glass. Do not store in:- metal drums, nylon, plasticised PVC.
- Packaging materials**
- Recommended use** : Use original container.

8. Exposure controls/personal protection

- Engineering measures** : Wherever practicable, the product should be handled within a closed system.
- Hygiene measures** : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
- Occupational Exposure Limits** : Not available.
- Personal protective equipment**
- Respiratory system** : Respiratory protection if there is a risk of uncontrolled exposure to vapour.
- Skin and body** : Wear: rubber boots, rubber apron.
If there is danger of splashing, wear: PVC or other impermeable suit.
- Hands** : Full length gloves must be worn during all handling operations.
- Eyes** : Chemical goggles must be worn.

9. Physical and chemical properties

- Physical state** : Liquid.
- Colour** : Colourless, to Dark Brown.
- Odour** : Acrid, Acidic.
- Boiling point** : 104 - 124
- Melting point** : - 17 - - 35
- Density** : Not available.
- Vapour density** : 3.4
- Vapour pressure** : 8.26mbar 20°C
- Solubility** : Completely soluble.
- pH** : <1
- Flash point** : Not available.
- Viscosity** : 2.0 - 5.4 cP at 10°C

10. Stability and reactivity

- Stability** : The product is stable.
- Conditions to Avoid** : Exposure to water or moisture. High temperatures.
- Materials to avoid** : Water. Oxidising agents. Organic materials. Strong acids. Nitrates. Chlorates. Alkalis.
- Hazardous decomposition products** : Attacks many metals liberating hydrogen gas.
Combustion will generate: oxides of sulphur.

11. Toxicological information

- Local effects**
- Skin irritation** : Extremely hazardous in case of skin contact (corrosive).
- Eye irritation** : Extremely hazardous in case of eye contact (irritant).
- Acute toxicity** : LD50: Not available.
LC50: Not available.
- Chronic toxicity** : Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection.

12. Ecological information

- Ecotoxicity** : High concentrations injure aquatic life by effect on pH. The product is expected to be practically non-toxic to aquatic species.

13. Disposal considerations

- Methods of disposal ; Waste of residues ; Contaminated packaging** : Dispose of in accordance with all applicable local and national regulations.
- Waste Classification** : Not applicable.

14. Transport information

International transport regulations

UN :	UN number	2796
UN :	Proper shipping name	Battery fluid, acid.
UN :	Class	8
UN :	Packing group	II
ADR/RID :	Class	8
ADR/RID :	Item Number	1(b)
ADR/RID :	Hazard identification number	80
TREMCARD TEC(R)		10A/80G06
IMDG :	Packing group	II
IMDG :	Class	8
IATA :	Packing group	II
IATA :	Class	8

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Classification :

Corrosive

Risk Phrases :

R35 Causes severe burns.

Safety Phrases :

S1/2 Keep locked up and out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S30 Never add water to this product.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SULPHURIC ACID BATTERY QUALITY 1140 - 1400 SG

(15-50%)

- Contains** : - SULPHURIC ACID BATTERY QUALITY 1140 - 1400 SG (15-50%)
- Product Use** : Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.
- Consumer applications.

16. Other information

HISTORY

(Please note that dates are in American format [month/day/year])

- Date of printing** : 3/4/2002.
- Date of Issue** : 4/19/2001.
- Date of previous issue** : 4/6/2001.
- Version** : 1
- Prepared by** : Michael Hale / Alistair Hunter

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.