

## SECTION 1

### PRODUCT IDENTIFICATION & MANUFACTURE

NAME: SULPHURIC ACID CONCENTRATED PART NO: 11-15193

### MANUFACTURER'S/SUPPLIERS NAME, REGISTERED ADDRESS AND EMERGENCY TEL NO:

MEGA ELECTRONICS LTD.,  
THE GRIP INDUSTRIAL ESTATE,  
LINTON, CAMBRIDGE.  
ENGLAND, CB1 6NR. TELEPHONE: +0044 01223 893900

### ORGANISATIONS NAME & ADDRESS AT WHICH MANUFACTURED

BRECKLANDS SCIENTIFIC SUPPLIES,  
BRUNEL WAY,  
THETFORD,  
NORFOLK,  
IP24 1HP TELEPHONE +44 (0) 1842 766203

## SECTION 2

### COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	%BY WT	CAS & EEC Nos:	HAZARD R PHRASE
SULFURIC ACID	100	7664-93-9	R35 CAUSES SEVERE BURNS

## SECTION 3 HAZARDS IDENTIFICATION

CAUSES SEVERE BURNS. IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. KEEP OUT OF REACH OF CHILDREN. NEVER ADD WATER TO THIS PRODUCT.

## SECTION 4 FIRST AID MEASURES

### INHALATION:

REMOVE CASUALTY OUT OF THE DANGER AREA AFTER FIRST ENSURING YOUR OWN SAFETY. LOOSEN THE PATIENT'S CLOTHING. IF THE CASUALTY IS UNCONSCIOUS, PLACE IN THE RECOVERY POSITION AND MONITOR BREATHING. APPLY ARTIFICIAL RESPIRATION ONLY IF PATIENT IS NOT BREATHING.

**SKIN CONTACT:** REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREA WITH LARGE QUANTITIES OF RUNNING WATER. IF IRRITATION OCCURS AND PERSISTS, SEEK MEDICAL ATTENTION.

**EYE CONTACT:** FLUSH WITH WATER OR SALINE SOLUTION FOR 15 MINUTES. SEEK MEDICAL ATTENTION

**INGESTION:** RINSE MOUTH OUT WITH LARGE QUANTITIES OF WATER AS A MOUTHWASH. ENSURE MOUTHWASH IS NOT SWALLOWED. IF CHEMICAL HAS BEEN SWALLOWED, GIVE ABOUT 250 ml OF WATER TO DILUTE IT IN TH STOMACH. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION.

## SECTION 5 FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

IN CASE OF FIR USE DRY SAND OR CHEMICAL POWDER. NEVER USE WATER. USE EXTINGUISHING MEDIA APPROPRIATE TOT HE SURROUNDING FIRE CONDITIONS

### COMBUSTION PRODUCTS

N/A

### FIRE/EXPLOSION SCENARIOS

NON FLAMMABLE, OR COMBUSTIBLE. IF INVOLVED IN A FIRE IT WILL EMIT COPIOUS FUMES OF SULFUR OXIDES.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PROTECTION

COMPLETE EYE AND FACE PROTECTION AND GLOVES

### ENVIRONMENTAL PRECAUTIONS

SPREAD SODA ASH LIBERALLY OVER THE SPILLAGE AND MOP UP CAUTIOUSLY WITH WATER – RUN THIS TO WASTE. DILUTING GREATLY WITH RUNNING WATER.

**METHODS FOR CLEARING UP:** WASH THE SPILLAGE SITE WITH LARGE AMOUNTS OF WATER

## SECTION 7 HANDLING AND STORAGE

### HANDLING PRECAUTIONS

WEAR EYE PROTECTION AND GLOVES

### STORAGE INCLUDING ANY SPECIAL REQUIREMENTS (TEMPERATURE, VENTILATION, ETC)

STORE IN COOL DRY AREA. KEEP AWAY FROM COMBUSTIBLE MATERIALS, BASES. NEVER ADD WATER TO THIS PRODUCT

## SECTION 8

### EXPOSURE CONTROL/PERSONAL PROTECTION

#### ENGINEERING CONTROLS/ VENTILATION

NORMAL GOOD ROOM VENTILATION SHOULD BE SUFFICIENT.

**RESPIRATORY PROTECTION :** N/A

**EYE PROTECTION:** RECOMMENDED SPLASHPROOF GOGGLES

**HAND PROTECTION:** RECOMMENDED IMPERVIOUS GLOVES e.g. NITRILE.

**SKIN PROTECTION:** RECOMMENDED IN FORM OF COVERALLS.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** VISCOUS LIQUID **COLOUR:** COLOURLESS

**ODOUR:** NONE

**ACIDITY/ALKALINITY pH:** H2SO4  
(Molar aqueous solution)

**BOILING POINT Im1-°C:**280-285 (1013mbar) **MELTING POINT °C:** 3

**FLASH POINT °C (Open/Closed Cup):** N.A.

**AUTOIGNITION TEMP °C:** N.A.

**THERMAL DECOMPOSITION TEMP °C:** **OXIDISING PROPERTIES:**

**EXPLOSIVE PROPERTIES:** NON FLAMMABLE

**SOLUBILITY:** COMPLETE MISCIBLE WITH WATER

**EXPLOSIVE LIMITS AT at 25°C (% VOL IN AIR)**

OES (8hr TWA) 1mg/M3 AS H2SO4

**LOWER:** **UPPER:**

**RELATIVE DENSITY:** 1.84 **SOLID CONTENT %:**

**INSOLUBILITY IN ALCOHOL, ETHER AND ACETONE.**

### VOLATILE CONTENT

**VAPOUR PRESSURE mmHg at 20°C**

**RELATIVE VAPOUR DENSITY (air = 1):**

(of principle component and name):

**EVAPORATION RATE**

**CONDUCTIVITY:** (n-butyl acetate = 1):

## SECTION 10

### STABILITY AND REACTIVITY PROPERTIES

**CONDITIONS TO AVOID:** NONE

**MATERIALS TO AVOID:**

NEVER ADD WATER TO THIS PRODUCT.

**CHEMICAL STABILITY:**

**STABLE**

## SECTION 11 TOXICOLOGICAL INFORMATION

### EFFECT OF EYE CONTACT:

THE LIQUID IS EXTREMELY DESTRUCTIVE TO EYES.

### EFFECT OF SKIN CONTACT:

THE LIQUID IS EXTREMELY DESTRUCTIVE TO SKIN.

**EFFECT OF INHALATION:** FUMES FROM HEATED MATERIAL WILL

CAUSE IRRITATION OF THE NOSE AND THROAT.

**EFFECT OF INGESTION:** IF SWALLOWED THERE IS IMMEDIATE

SEVERE IRRITATION AND DAMAGE.

LD50 (ORAL RAT): mg / kg. 2140 AS H2SO4

## SECTION 12 ECOLOGICAL INFORMATION

**ECOTOXICITY**

NOT AVAILABLE

**PERSISTENCE**

NOT AVAILABLE

**APPRAISAL**

NOT AVAILABLE

## SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: ADD IN SMALL QUANTITIES TO A LARGE, STIRRED EXCESS OF WATER, FINALCONCENTRATION NO GREATER THAN 2%. NEUTRALISE WITH SODIUM CARBONATE OR 5% SODIUM HYDROXIDE SOLUTION AND RUN TO WASTE WITH LARGE VOLUMES OF WATER. LARGE AMOUNTS ARE BEST DEALT WITH BY A SPECIALIST DISPOSAL COMPANY.

## SECTION 14 TRANSPORT INFORMATION

**IMDG CODE**

UN NUMBER 1830

Class: 8 PACKING

**GROUP:** 11

MARINE POLLUTANT

**ADR/RID**

SUBSTANCE IDENTIFICATION NUMBER 1830

CLASS. ITEM NUMBER 8,1 (b)

**IATA/ICAO UN NUMBER:** 1830 **IATA CLASS** 8

## SECTION 15 REGULATORY INFORMATION

**CONTAINS:**

SULPHURIC ACID CONCENTRATED

**RISK PHRASE Nos. & WORDS:** 35 Causes severe burns

**SAFETY PHRASE Nos. & WORDS:**

**S2:** Keep out of reach of children.

**S26** In case of contact with eyes / rinse immediately with plenty of water and seek medical advice

**S26/37/39** Wear suitable protective clothing, gloves and eye / face protection

**S30** Never add water to this product.

### OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS: Use only as directed.

*THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BELIEVED TO BE ACCURATE - HOWEVER NO GUARANTEE OR WARRANTY EXPRESSED OR IMPLIED IS GIVEN*