

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

NAME: MEGA FERRIC CHLORIDE STAIN REMOVER
PART NO: 600-039

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

MEGA ELECTRONICS LTD.,
THE GRIP INDUSTRIAL ESTATE,
LINTON,
CAMBRIDGE, ENGLAND, CB21 4XN
TEL. No: +44 (0)1223 893900

ORGANISATIONS NAME & ADDRESS AT WHICH MANUFACTURED:

BUNGARD ELEKTRONIK,
RILKESTR. 1,
D51570 WINDECK ROSBACH,
GERMANY
TEL No. +49 2292 5046

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	%BY WT	CAS & EEC Nos.:	HAZARD	R PHRASE NOS
OXALIC ACID	100%	6153-56-6 205-634-3	Xn	21 - 22

SECTION 3 HAZARDS IDENTIFICATION

HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED

SECTION 4 FIRST AID MEASURES

INHALATION: REMOVE FROM EXPOSURE TO FRESH AIR

SKIN CONTACT:

WASH THE AFFECTED AREA WITH LARGE QUANTITIES OF RUNNING WATER

EYE CONTACT:

WASH WITH WATER OR SALINE SOLUTION FOR 15 MINUTES.

INGESTION: IF CHEMICAL HAS BEEN CONFINED TO THE MOUTH, GIVE LARGE QUANTITIES OF WATER AS A MOUTH WASH. ENSURE THE MOUTH WASH IS NOT SWALLOWED. IF THE CHEMICAL HAS BEEN SWALLOWED GIVE ABOUT 250ml OF WATER TO DILUTE IN THE STOMACH. OBTAIN MEDICAL ATTENTION.

MEDICAL NOTES: N/A

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

PREFERABLY DRY CHEMICAL OR WATER SPRAY

COMBUSTION PRODUCTS

MATERIAL IS COMBUSTIBLE. IF INVOLVED IN A FIRE IT DECOMPOSES TO EMIT TOXIC FUMES OF CARBON DIOXIDE AND CARBON MONOXIDE

FIRE/EXPLOSION SCENARIOS

NONE UNUSUAL

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

NONE UNUSUAL

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION

WEAR EYE PROTECTION AND GLOVES.

ENVIRONMENTAL PRECAUTIONS

WORKPLACE PRECAUTIONS

DO NOT EAT, DRINK OR SMOKE WHILE WORKING WITH CHEMICALS

METHODS FOR CLEARING UP

DRY: COLLECT AND PUT INTO SUITABLE CONTAINER FOR DISPOSAL.
LIQUID: ABSORB IN SAND OR OTHER INERT MATERIAL AND PUT INTO SUITABLE CONTAINER FOR DISPOSAL.

SECTION 7 HANDLING AND STORAGE

HANDLING PRECAUTIONS

WEAR EYE PROTECTION AND GLOVES AND A SUITABLE DUST MASK WHEN MIXING.

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

STORE AWAY FROM OXIDISING AGENTS.
STORE AT ROOM TEMPERATURE. KEEP FROM FREEZING

SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS/VENTILATION

NO LOCAL EXHAUST VENTILATION REQUIRED.

RESPIRATORY PROTECTION

PROTECTIVE MASK WHEN MIXING.

EYE PROTECTION

WEAR SAFETY GLASSES

HAND PROTECTION

WEAR PROTECTIVE RUBBER GLOVES.

SKIN PROTECTION

WEAR PROTECTIVE CLOTHING.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: CRYSTALS

COLOUR: WHITE

ODOUR: SLIGHT

ACIDITY/ALKALINITY pH:

BOILING POINT°C: 100 SUBLIMES

MELTING POINT °C:101

FLASH POINT °C (Open/Closed Cup):

AUTOIGNITION TEMP °C:

THERMAL DECOMPOSITION TEMP °C:

OXIDISING PROPERTIES:

EXPLOSIVE PROPERTIES:

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

LOWER:

UPPER:

RELATIVE DENSITY: 1.65g/cm³

SOLID CONTENT %:

SOLUBILITY IN WATER AT 20 DEGREES 95g/L:
100 DEGREES 330g/L

SOLUBILITY IN ORGANIC SOLVENTS SOLUBLE IN ETHANOL GLYCEROL
SLIGHTLY SOLUBLE IN DIETHYL ETHER INSOLUBLE IN BENZINE. CHLOROFORM,

VOLATILE CONTENT: PETROLEUM

VAPOUR PRESSURE mmHg at 20°C
(of principle component and name):

RELATIVE VAPOUR DENSITY (air = 1):

EVAPORATION RATE
(n-butyl acetate = 1):

CONDUCTIVITY:

SECTION 10 STABILITY AND REACTIVITY PROPERTIES

CONDITIONS TO AVOID:

MATERIALS TO AVOID: OXIDISING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS:
IN CASE OF FIRE: CARBON DIOXIDE
CARBON MONOXIDE

HAZARDOUS POLYMERISATION - MAY/WILL/NOT occur - State condition to avoid
WILL NOT OCCUR

SECTION 11 TOXICOLOGICAL INFORMATION

EFFECT OF EYE CONTACT: IRRITATING TO THE EYES.

EFFECT OF SKIN CONTACT:

IRRITATING TO THE SKIN, PRO-LONGED EXPOSURE MAY CAUSE DERMATITIS
ORAL LD50 (RAT) (mg/Kg) 375

EFFECT OF INHALATION: IRRITATING TO RESPIRATORY SYSTEM.

EFFECT OF INGESTION: IF SWALLOWED THE SUBSTANCE CAUSES IRRITATION OF
THE GASTRO INTESTINAL TRACT AND ABDOMINAL PAIN. -LD LO ORAL HUMAN 71

Any known data on sensitisation carcinogenicity, mutagenicity, teratogenicity, or narcosis.
NONE KNOWN

SECTION 12 ECOLOGICAL INFORMATION

NOT CLASSIFIED

SECTION 13 DISPOSAL CONSIDERATIONS

LARGE QUANTITIES MAY BE DISPOSED OF BY DISSOLVING IN A SUITABLE SOLVENT
AND BURNING IN A CHEMICAL INCINERATOR EQUIPPED WITH AFTER BURNER AND
SCRUBBER OR BY BURIAL ON AN APPROVED SITE. ALWAYS DISPOSE ACCORDING
TO LOCAL AUTHORITY REGULATIONS.

SECTION 14 TRANSPORT INFORMATION

UN-Nr: NOT CLASSIFIED FOR TRANSPORT **IATA CLASS:**

SHIPPING NAME: OXALIC ACID.

SECTION 15 REGULATORY INFORMATION

PRODUCT LABEL DETAILS - PER CHIP REGULATION 9

PRODUCT TRADE NAME/DESIGNATION: FERRIC CHLORIDE STAIN REMOVER

CONTAINS: OXALIC ACID

HAZARD SYMBOL: HARMFUL

RISK PHRASE NUMBERS & WORDS:

R21/22 HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED.

SAFETY PHRASE NUMBERS & WORDS:

S2 KEEP OUT OF REACH OF CHILDREN
S24 / 25 AVOID CONTACT WITH SKIN AND EYES

OCCUPATIONAL EXPOSURE LIMITS; Ref HSE Guidance Notes EH40 for current year
Long term exposure limit: (8 hour TWA) Short term exposure limit (10 minute period)
SUBSTANCE IN PRODUCT FORMULA p.p.m. mg/m³
OXALIC ACID (COOH) 2.2 H2O / 1mg/m³ OEL

SECTION 16

COMPILED ACCORDING TO CURRENT U.K AND EU LEGISLATION.

REVISION DATE: 10TH JULY 2002