

769-897

# FERRIC CHLORIDE STAIN REMOVER

This unique powder may be utilised in a variety of methods for the removal of Ferric Chloride stains from clothing, PCB tanks, work benches and other affected areas.

## FOR USE AS A SCRUBBING COMPOUND

This method is best employed for removal of small stains on clothes and larger stains on equipment and floors etc.

Apply sufficient powder to cover the affected area and scrub with a wet cloth or sponge. On badly affected areas apply the powder direct, add a small amount of water and leave a while before scrubbing.

## FOR USE AS A CLEANING SOLUTION

The powder may also be employed to make a cleaning solution which is the best method for removal of larger stains on clothing or removable equipment parts.

Fill a suitable container with warm tap water, sufficient to allow immersion of items to be cleaned. Then add the Ferric stain remover at an approximate rate of 100 gr. per 500ml of water and stir until dissolved.

The solution is now ready for use. Immerse the stained items until the staining is removed. The time necessary to achieve this is dependant upon the severity of the stain. Check periodically.

Please note that the above concentration is a guideline and some staining may require a smaller or greater concentration. The powder may be used at concentrations between 100g/200ml of water and 100g/1000ml of water.

## SAFETY AT WORK

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Ferric stain remover is an organic acid and wet powder and solutions have a burning effect on cuts and wounds. **Always wear suitable protective gloves and goggles when handling.**

All items of clothing that have been treated must be thoroughly rinsed after processing and then machine washed before wearing.

All equipment, machine parts or any other treated items or areas must also be thoroughly rinsed after cleaning.

*Please see reverse for full Health and Safety data.*

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SUPPLIER: MEGA ELECTRONICS LTD, MEGA HOUSE, THE GRIP INDUSTRIAL ESTATE,  
LINTON, CAMBRIDGE. CB1 6NR TEL NO: (01223) 893900 FAX NO: (01223) 893894.

**SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE**

NAME: MEGA FERRIC CHLORIDE STAIN REMOVER PART NO: 800-039  
MANUFACTURER/SUPPLIER'S NAME, REGISTERED ADDRESS AND EMERGENCY  
TEL NO:  
MEGA ELECTRONICS LTD,  
THE GRIP INDUSTRIAL ESTATE,  
LINTON,  
CAMBRIDGE CB1 6NR  
TEL NO: 01223 869900

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

COMPONENT % BY WT CAS & EEC Nos. HAZARD R PHRASE NOS:  
OXALIC ACID 100% 6153-36-6 205-634-3 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.

NOTATION: 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.

MEICAL NOTES: N/A

**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.

EXHAUSTING MEDIA  
PREFERABLY DRY CHEMICAL OR WATER SPRAY  
COAGULATION PRODUCTS  
MATERIAL IS COMBUSTIBLE. IF INVOLVED IN A FIRE IT DECOMPOSES TO EMIT TOXIC FUMES OF CARBON DIOXIDE AND CARBON MONOXIDE  
FIRE/EXPLOSION SCENARIOS  
NE UNUSUAL  
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS  
NE UNUSUAL

**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 CONTROL/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 25°C (% VOL. IN AIR)  
LOWER: UPPER:  
RELATIVE DENSITY: 1.65g/cm<sup>3</sup> SOLID CONTENT %:  
SOLUBILITY IN WATER AT 20 DEGREES 95g/L SOLUBILITY IN ORGANIC SOLVENTS  
100 DEGREES 330g/L SOLUBLE IN ETHANOL, GLYCEROL,  
SLIGHTLY SOLUBLE IN DIETHYL ETHER,  
INSOLUBLE IN BENZENE, CHLOROFORM,  
PETROLEUM

**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: MAYMILLAND 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, PROLONGED 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**

N/A

**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: 2410 DATA CLASS: PACKING GROUP: III  
SHIPPING NAME: OXALIC ACID.

**SECTION 15 REGULATORY INFORMATION**

PRODUCT LABEL DETALS - PER CHIP REGULATION 9  
PRODUCT TRADE NAME/DESIGNATION: FERRIC CHLORIDE STAIN REMOVER  
CONTAINS: OXALIC ACID  
HAZARD SYMBOL: HARMFUL  
RISK PHRASE NOS & WORDS: R21/22  
HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED.  
SAFETY PHRASE NOS & WORDS: S2 KEEP OUT OF REACH OF CHILDREN  
S24 / S25 AVOID CONTACT WITH SKIN AND EYES

OCCUPATIONAL EXPOSURE LIMITS: Ref HSE guidance Notes EX40 for current year  
Long term exposure limit (8 hour TWA) Short term exposure limit (10 mins period)  
SUBSTANCE IN PRODUCT FORMULA ppm mg/m<sup>3</sup>  
OXALIC ACID (COOH) 2.2 H2O / 1mg/m<sup>3</sup> OEL

OTHER INFORMATION  
RECOMMENDED USES/ RESTRICTIONS: USE ONLY ACCORDING TO INSTRUCTIONS.  
INFORMATION SOURCES: HSE OR PUBLICATION REFERENCES: COMPILED IN  
ACCORDANCE WITH CHIP REGULATIONS 1993. HSC APPROVED CODE OF PRACTICE:  
DOCUMENT L37