Martronics Corporation PO Box 200 Salkum, WA 98582 Tel. 360-985-2999



SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

BLACK OXIDE ELECTROLYTE

PRODUCT USE

ELECTROLYTIC / ELECTROCHEMICAL METAL INSCRIPTION

MANUFACTURER'S NAME

MARTRONICS CORPORATION

STREET ADDRESS

500 WILCOX RD

CITY STATE

SALKUM WA

POSTAL CODE 98582 EMERGENCY TELEPHONE 1-800-775-0797

DATE MSDS PREPARED MSDS PREPARED BY PHONE NUMBER 01-Dec.-16 BRETA FAUSSETT 360-985-2999

SECTION2 – HAZARDOUS IDENTIFICATION

2.1 Classification of substance or Mixture: Not Classified SIGNAL WORD: WARNING



2.2 Labeling Elements WARNING

2.3 Other Hazards listed below

H316 MAY CAUSE SKIN IRRITATION H320 MAY CAUSE EYE IRRITATION

H413: HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECT IN THE AQUATIC ENVIRONMENT

EMERGENCY OVERVIEW

ACUTE EXPOSURE MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY SYSTEM. ORAL TOXICITY OF COMPONENTS IS LOW TO MODERATE.

2.4 Precautionary Statements:

Prevention: P280 - Wear protective gloves. Wear eye or face protection P264 – Wash hands thoroughly after handling

Response: P302+P352 + P362-2+ P363 IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	%
CALCIUM CHLORIDE	10043.52-4	1-5
SODIUM CHLORIDE	7647-14-5	1-5
CITRIC ACID	77-92-9	1-5
COBALT CHLORIDE	7791-13-1	1-5

EXACT PERCENTAGE (CONCENTRATION) OF THE COMPOSITION HAS BEEN WITHELD AS A TRADE SECRET IN ACCORDANCE WITH 29 CFR 1910.1200 OR IS DUE TO BATCH VARIATION. THERE ARE NO ADDITIONAL INGREDIENTS PRESENT WHICH, WITHIN THE CURRENT KNOWLEDGE OF THE SUPPLIER AND IN THE CONCENTRATIONS APPLICABLE, ARE CLASSIFIED AS HAZARDOUS TO HEALTH OR THE ENVIRONMENT AND HENCE REQUIRE REPORTING IN THIS SECTION.

SECTION 4 - FIRST AID MEASURES

SKIN CONTACT

IN CASE OF CONTACT IMMEDIATELY FLUSH WITH WATER. CALL A PHYSICIAN IF IRRITATION CONTINUES.

YE CONTACT

FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS APART. CALL A PHYSICIAN IF IRRITATION CONTINUES.

SEEK FRESH AIR.

INGESTION

IF SWALLOWED, IF CONSCIOUS, IMMEDIATELY GIVE LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE

IF YES, UNDER WHAT CONDITIONS?

YES NO X **NOT APPLICABLE** FLASHPOINT °(C) AND METHOD LOWER FLAMMABLE LIMIT (% BY VOLUME)

NON COMBUSTIBLE NOT AVAILABLE **NOT AVAILABLE**

AUTOIGNITION TEMPERATURE EXPLOSION DATA - SENSITIVITY TO IMPACT EXPLOSION DATA - SENSITIVITY TO STATIC DISCHARGE

UPPER FLAMMABLE LIMIT (% BY VOLUME)

NOT AVAILABLE **NOT AVAILABLE**

HAZARDOUS COMBUSITION PRODUCTS

TOXIC GASES MAY BE PRODUCED.

NOT AVAILABLE

SECTION 6 - ACCIDENTAL RELEASE MEASURES

LEAK AND SPILL PROCEDURE

WEAR SUITABLE PROTECTIVE CLOTHING. ABSORB WITH VERMICULITE, PAPER, ETC. AND REMOVE. FLUSH AREA WITH WATER.

SECTION 7 – HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT

AVOID CONTACT WITH THE SKIN. WEAR PROPER PROTECTIVE EQUIPMENT. DO NOT BREATHE VAPOR / AEROSOL. STORAGE REQUIREMENTS

KEEP CONTAINER CLOSED TO AVOID EVAPORATION. KEEP FROM FREEZING. STORE IN COOL DRY PLACE, OUT OF DIRECT

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE LIMITS

NONE

SPECIFIC ENGINEERING CONTROLS

LOCAL EXHAUST

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR **FOOTWFAR** OTHER **GLOVES X** EYE X CLOTHING X

IF CHECKED, PLEASE SPECIFY TYPE

NEOPRENE GLOVES AND UNIFORM OR APRON ARE RECOMMENDED. SAFETY GLASSES OR GOGGLES. SAFETY SHOWER / EYE WASH.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE APPEARANCE ODOR

LIQUID CLEAR SLIGHT

SPECIFIC GRAVITY VAPOR DENSITY VAPOR PRESSURE

1.054 **NOT AVAILABLE NOT AVAILABLE**

EVAPORATION RATE BOILING POINT FREEZING POINT

NOT AVAILABLE UNKOWN: > 100°C **NOT AVAILABLE**

РΗ COEFFICENT OF WATER/OIL DISTRIBUTION SOLUBILITY IN WATER

NOT AVAILABLE NOT AVAILABLE MISCIBLE

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY IF NO, UNDER WHAT CONDITIONS?

STABLE NOT APPLICABLE

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES WHICH ONES?

YES AVOID CONTACT WITH STRONG MINERAL ACIDS.

REACTIVITY, AND UNDER WHAT CONDITIONS?

NOT APPLICABLE

HAZARDOUS DECOMPOSITION PRODUCTS

NONE

SECTION 11 - TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

IRRITATION OF EYES, SKIN AND RESPIRATORY SYSTEM.

EFFECTS OF CHRONIC EXPOSURE

NONE

SKIN SENSITIZATION RESPIRATORY SENSITIZATION

NO DATA AVAILABLE NO DATA AVAILABLE

CARCINOGENICITY - IARC CARCINOGENICITY - ACGIH

NO DATA AVAILABLE NO DATA AVAILABLE

REPRODUCTIVE TOXICITY TERATOGENCITY

NO DATA AVAILABLE NO DATA AVAILABLE

EMBRYOTOXICITY MUTAGENICITY

NO DATA AVAILABLE NO DATA AVAILABLE

NAME OF SYNERGISTIC PRODUCTS/EFFECTS

NO DATA AVAILABLE

SECTION 12 - ECOLOGICAL INFORMATION

AQUATIC TOXICITY

MARTRONICS CORPORATION HAS NOT CONDUCTED SPECIFIC STUDIES ON THE ECOLOGICAL TOXICITY OR ENVIRONMENTAL FATE OF THIS PRODUCT.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION PIN

NONE NOT APPLICABLE

DG

NOT APPLICABLE

IMO

ICAO

OT APPLICABLE NOT APPLICABLE

NOT APPLICABLE SECTION 15 - REGULATORY INFORMATION

WHMIS CLASSIFICATION OSHA

NOT APPLICABLE YES, BUT ONLY AS DRY COMPONENT

ERA TS

NOT APPLICABLE NOT APPLICABLE

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH ALL THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY CPR.

SECTION 16 - OTHER INFORMATION

MARTRONICS CORPORATION. RECOMMENDS THAT ALL EMPLOYERS DEVELOP, IMPLEMENT, AND TRAIN ALL EMPLOYEES IN PROPER WORKPLACE SAFETY PROCEDURES AND PRACTICES CONTAINED IN OSHA 29 CFR PART 1910 (OCCUPATIONAL SAFETY AND HEALTH STANDARDS)