MARCO CO -- MARCALOY 302 1/8" -- 3439-01-135-3913 ============ Product Identification ========================= Product ID:MARCALOY 302 1/8" MSDS Date:06/01/1987 FSC:3439 NIIN:01-135-3913 MSDS Number: BNVCV === Responsible Party === Company Name: MARCO CO Address:5722 UNION PACIFIC AVENUE City:LOS ANGELES State:CA ZIP:90022-5135 Country:US Info Phone Num:213-723-0711 Emergency Phone Num:213-723-0711 Preparer's Name: BARRY MARDEN CAGE:55278 === Contractor Identification === Company Name:MA RCO CO Address: 5722 UNION PACIFIC AVENUE Box:City:LOS ANGELES State:CA ZIP:90022-5135 Country:US Phone:213-723-0711 CAGE:55278 ======= Composition/Information on Ingredients ======== Ingred Name: NICKEL (SARA III) CAS:7440-02-0 RTECS #:QR5950000 Other REC Limits: NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9192

Ingred Name: ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15MG/M3 DUST/5 FUME ACGIH TLV:10MG/M3 DUST; 9192

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d Name:CALCIUM FLUORIDE

CAS:7789-75-5

RTECS #:EW1760000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2.5 MG/M3 AS F ACGIH TLV:2.5 MG/M3 AS F

Ingred Name: SODIUM METASILICATE, ANHYDROUS

CAS:6834-92-0

RTECS #:VV9275000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:2 MG/M3 8HR ACGIH TLV:C; 2 MG.M3

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name: CALCIUM CARBONATE (MARBLE) (LIMESTONE)

CAS:1317-65-3

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TECS #:EV9580000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Other REC Limits: NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:10 MG/M3 AS FE2O3

Ingred Name: STRONTIUM CARBONATE

CAS:1633-05-2

Other REC Limits: NONE RECOMMENDED

Ingred Name: GRAPHITE, NATURAL

CAS:7782-42-5

RTECS #:MD9659600

Other REC Limits: NONE RECOMMENDED

OSHA PEL:15 MPPCF RDUST ACGIH TLV:2 MG/M3 RDUST; 9293

Ingred Name:BARIUM CARBONATE

CAS

:513-77-9

RTECS #:CQ8600000

Other REC Limits: NONE RECOMMENDED

Ingred Name: COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000

Other REC Limits: NONE RECOMMENDED

OSHA PEL:0.1MG/M3 FUME/1 DUST

ACGIH TLV:0.2MG/M3 FUME; 9192

EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

============= Hazards Identification ========================

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:SHORT TERM EXPOSURE TO WE

LDING FUMES,

GASES OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. A CUTE EXPOSURE FROM SOME TOXIC GASES MAYCAUSE PULMONARY EDEMA, ASPHYXIATION AND EXCESSIVE EXPOSURE CAN BE FATAL.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM ARE CONSIDERED POSSIBLE CARCINOGENS UNDER OSHA. RESPIRATORY CANCER FROM WELDING IS UNCONFIRMED.

Effects of Overexposure: EXPOSURE TO W

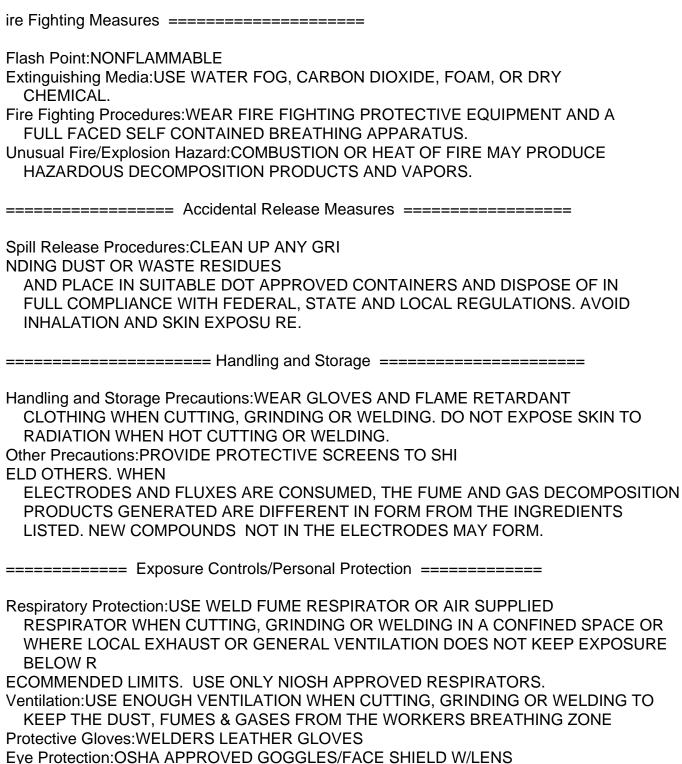
ELDING FUMES MAY RESULT IN

DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. WATERY EYES, HEADACHE, BREA THING DIFFICULTY, FREQUENT COUGHING AND/OR CHEST PAINS MAY OCCUR FROM ACUTE EXPOSURE. TOXIC GASES CAN BE FATAL.

Medical Cond Aggravated by Exposure:SOME WORKERS MAY BE AFFECTED BY A PRE-EXISTING CONDITION OR OTHER OCCUPATIONAL ILLNESS BECAUSE OF THE WIDE VARIATION IN INDIVIDUAL SUSCE PTIBILITIES.

First Aid:IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER PRIOR TO REMOVAL FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. REMOVE FROM EXPOSURE AREA AND CALL FOR MEDICAL AID. ADMINISTER OXYGEN IF BREATHING IS D IFFICULT. IF NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION. IF NO DETECTABLE PULSE, BEGIN CPR. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

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Eye Protection: OSHA APPROVED GOGGLES/FACE SHIELD W/LENS
Other Protective Equipment: FLAME RETARDANT CLOTHING WHEN CUTTING,

GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING.

Work Hygienic Practices: WASH THOROUGHLY BEFORE EATING

OR SMOKING.

LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THEPRESENCE OF CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.

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HCC: N1 Appearance and Odor:14" LONG ROD, 1/4" DIAMETER
========= Stability and Reactivity Data ============
Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:WELDING AND CUTTING OPERATION MAY INCLUDE OXIDES OF THE METALS, CHROMATES, FLUORIDES, COMPLEX METALLICS, AND OZONE.

====== Disposal Considerations ==========

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

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