

MARCO CO -- MARCOLOY 1560, SILVER BRAZING ALLOYS (FLUX COATED, PASTE & B --
3439-01-030-2413

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Product Identification
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Product ID:MARCOLOY 1560, SILVER BRAZING ALLOYS (FLUX COATED, PASTE & B

MSDS Date:12/15/1998

FSC:3439

NIIN:01-030-2413

Status Code:A

Kit Part:Y

MSDS Number: CLMFQ

=== 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:(323) 723-0711 FAX 323-722-3977

CAGE:55278

=== Contractor Identification ===

Company Name:MARCO CO

Address:5722 UNION PACIFIC AVENUE

Box:City:LOS ANGELES

State:CA

ZIP:90022-5135

Country:US

Phone:213-723-0711

Contract Num:SP0490-01-M-XK45

CAGE:55278

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Composition/Information on Ingredients
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Ingred Name:SILVER

CAS:7440-22-4

RTECS #:VW3500000

OSHA PEL:0.01 MG/M3

ACGIH TLV:0.1 MG/M3

EPA Rpt Qty:1 L

B
DOT Rpt Qty:1 LB

Ingred Name:COPPER
CAS:7440-50-8
RTECS #:GL5325000
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ZINC
CAS:7440-66-6
RTECS #:ZG8600000
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:CADMIUM
CAS:7440-43-9
RTECS #:EU9800000
OSHA PEL:SEE 1910.1027
ACGIH TLV:0.05 MG/M3
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:NICKEL
CAS:7440-02-0
RTECS #:QR5950000
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3
EPA
Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:TIN
CAS:7440-31-5
RTECS #:XP7320000
OSHA PEL:2 MG/M3
ACGIH TLV:2 MG/M3

Ingred Name:FLUORIDES
CAS:7789-23-3
RTECS #:TT0700000
ACGIH TLV:2.5 MG/M3

Ingred Name:HYDROCARBON - INORGANIC SALTS
ACGIH TLV:2.45 MG/M3

Ingred Name:SODIUM BORATE
CAS:1333-73-9

Ingred Name:POTASSIUM BORATE
CAS:1332-77-0

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

LD50 LC50 Mixture:NO DATA PROVIDED BY MANUFACTURER

ELECTRIC ARC-WELDING MAY CREATE ONE OR MORE OF THE FOLLOWING HEALTH HAZARDS: FUMES AND GASES CAN BE DANGEROUS TO YOUR HEALTH. ARC-RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

Explanation of Carcinogenicity:CARCINOGENICITY: NICKEL - YES.

Effects of Overexposure:SHORT-TERM OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS: DIZZINESS, NAUSEA, OR DRYNESS OR IRRITATION OF NOSE, THROAT, OR EYES, TIGHTNESS IN CHEST, FEVER AND ALLERGIC REACTIONS. LONG

- TERM (CHRONIC) OVEREXPOSURE TO WELDING FUMES MAY LEAD TO SIDEROSIS (IRON DEPOSIT IN LUNGS) AND IS BELIEVED BY SOME INVESTIGATORS TO AFFECT PULMONARY FUNCTION.

Medical Cond Aggravated by Exposure:NO DATA PROVIDED BY MANUFACTURER

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===== First Aid Measures =====

First Aid:REMOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

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===== Fire Fighting Measures =====

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Extinguishing Media:NO DATA PROVIDED BY MANUFACTURER

Fire Fighting Procedures:NO DATA PROVIDED BY MANUFACTURER

Unusual Fire/Explosion Hazard:WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLES AND FLAMMABLES. REFER TO AMERICAN STANDARD Z49.1 FOR FIRE PREVENTION DURING THE USE OF WELDING AND ALLIED PROCEDURES.

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===== Accidental Release Measures =====

Spill Release Procedures:NOT APPLICABLE.

Neutralizing Agent:NO DATA PROVIDED BY MANUFACTURER

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===== Handling and Storage =====

Handling and Storage Precautions:READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THE PRODUCT. TRAIN THE WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND.

Other Precautions:USE EXHAUST SYSTEM TO CLEAR WELDING FUMES. MAKE SURE THAT INHALED AIR DOES NOT CONTAIN FUME CONSTITUENTS ABOVE PERMISSIBLE EXPOSURE LEVELS. OTHER PRECAUTIONS FOR ADDITIONAL SAF

ETY INFORMATION ON WELDING AND CUTTING, SEE AMERICAN STANDARD Z49.1-1983, SAFETY IN WELDING AND CUTTING, AND THE WELDING HANDBOOK, VOL. 1,

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE RESPIRABLE FUME RESPIRATORY OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW THE RECOMMENDED EXPOSURE LIMIT.

Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH,

TO KEEP THE FUMES & GASES FROM THE WORKER'S BREATHING ZONE & THE GENERAL AREA. TRAIN THE WELDER TO

Protective Gloves:WELDER'S GLOVES.

Eye Protection:WEAR HELMET OR USE FACE SHIELD WITH FILTER LENS. PROVIDE PROTECTIVE SCREENS AND

Other Protective Equipment:WEAR HAND, HEAD, AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS, AND ELECTRICAL SHOCK, SEE ANSI Z49.1. AT A MINIMUM THIS INCLUDES WELDER'S GLOVES AND A PROTECTIVE FACESHIELD,

Work

Hygienic Practices:NO DATA PROVIDED BY MANUFACTURER

Supplemental Safety and Health

TRAIN THE WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND.

===== Physical/Chemical Properties =====

HCC:N1

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:NONE; UNLESS OTHERWISE SPECIFIED.

Hazardous Decomposition Products:THE COMPOSITION AND QUALITY OF WELDING

FUMES AND GASES ARE DEPENDENT UPON THE METAL BEING WELDED, THE PROCESS, PROCEDURE, AND ELECTRODES USED. OTHER CONDITIONS WHICH ALSO INFLUENCE THE COMPOSITION

===== Toxicological Information =====

Toxicological Information:THE COMPOSITION & QUALITY OF WELDING FUMES & GASES ARE DEPENDENT UPON THE METAL BEING WELDED, THE PROCESS, PROCEDURE & ELECTRODES BEING USED. DECOMPOSITION PRODUCTS OF NORMAL OPERATION INCLUDE THOSE ORIGIN

ATING FROM THE VOLATILIZATION,
REACTION OR OXIDATION OF THE MATERIALS SHOWN IN SECTION 2 (THE
INGREDIENTS SECTION), PLUS THOSE FROM THE BASE METAL & COATING.

===== Ecological Information =====

Ecological:NO DATA PROVIDED BY MANUFACTURER

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

Waste Disposal Methods:PREVENT WASTE FROM CONTAMINATING SURROUNDING
ENVIRONMENT. DISCARD ANY PRODUCT RESIDUE, DISPOSABLE CONTAINER OR
LINER
IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE
WITH FEDERAL, STATE AND LOCAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information:NO DATA PROVIDED BY MANUFACTURER

===== Regulatory Information =====

SARA Title III Information:NO DATA PROVIDED BY MANUFACTURER
Federal Regulatory Information:NO DATA PROVIDED BY MANUFACTURER
State Regulatory Information:NO DATA PROVIDED BY MANUFACTURER

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===== Other Information =====

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