

TELEDYNE MC KAY -- ER347 (WELDING ROD) -- 3439-00-004-4547

===== Product Identification =====

Product ID:ER347 (WELDING ROD)

MSDS Date:11/01/1986

FSC:3439

NIIN:00-004-4547

MSDS Number: BCTZM

=== Responsible Party ===

Company Name:TELEDYNE MC KAY

Address:850 GRANTLEY RD

Box:1509

City:YORK

State:PA

ZIP:17405

Country:US

Emergency Phone Num:(717) 845-7581

CAGE:JO784

=== Contractor Identification ===

Company Name:HOBART BROS CO MCKAY WELDING PRODUCTS DIV

Address:400 TRADE SQ E

Box:City:TROY

State:OH

ZIP:45373-2900

Country:US

Phone:513-332-5706

CAGE:76254

Company Name:TELEDYNE MC KAY

Address:850 GRANTLEY RD

Box:1509

City:YORK

State:PA

ZIP:17405

Country:US

CAGE:JO784

===== Composition/Information on Ingredients =====

Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 21.0%

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty

:1 LB

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 10.0%

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name:MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000

Fraction by Wt: 1.80%

OSHA PEL:(C) 5 MG/M3 DUST

ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:COLUMBIUM (NIOBIUM)

Fraction by Wt: SEE # 5%

Ingred Name:TANTALUM

CAS:7440-25-7

RTECS #:WW5505000

Fraction by Wt: 0.70%

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3; DUST; 9192

Ingred Name:SILICON

CAS:7440-21-3

RTECS #:

VW0400000

Fraction by Wt: 0.40%

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:GRAPHITE, SYNTHETIC

CAS:7440-44-0

RTECS #:FF5250100

Fraction by Wt: 0.04%

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Fraction by Wt: 66%

OSHA PEL:10MG/CUM (OXIDE)

ACGIH TLV:5MG/CUM (OXIDE)

Ingred Name:ALUMINUM FLUORIDE

CAS:7784-18-1

RTECS #:BD0725000

OSHA PEL:2.5 MG/M3 (AS F)

ACGIH TLV:2.5 MG/M3 (AS F)

Ingred Name:CALCIUM FLUORIDE

CAS:

7789-75-5
RTECS #:EW1760000
OSHA PEL:2.5 MG/M3 (F)
ACGIH TLV:2.5 MG/M3 (F); 8990

Ingred Name:POTASSIUM FLUORIDE
CAS:7789-23-3
RTECS #:TT0700000
OSHA PEL:2.5 MG/M3 (F)
ACGIH TLV:2.5 MG/M3 (F); 8990

Ingred Name:SODIUM FLUORIDE (SARA III)
CAS:7681-49-4
RTECS #:WB0350000
OSHA PEL:2.5 PPM F
ACGIH TLV:2.5 MG F/M3; 9192
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Ca

rcinogenicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE:METALLIC TASTE,NAUSEA,TIGHTNESS OF CHEST,FEVER,DIZZINESS,DRYNESS OR IRRITATION OF EYES,NOSE OR THROAT. CHRONIC:EXCESSIVE LEVELS MAY CAUSE BRONCHIAL ASTHMA,LUNG FIBROSIS,PNEUMOCONIOSIS,MANGANISM. *MANGANESE AND CHROMIUM MAY EXCEED THEIR LIMIT BEFORE THE TOTAL WELDING FUMES EXCEEDS ITS RECOMMENDED LIMIT*

Explanation of Carcinogenicity:CHROMIUM (VI) IS A HUMAN CARCINOGEN.

CHROMIUM (III) IS A SUSPECTED HUMAN CARCINOGEN. NI IS A SUSPECTED HUMAN CARCINOGEN.

Effects of Overexposure:SEE HEALTH HAZARDS

Medical Cond Aggravated by Exposure:AGGRAVATION OF PRE-EXISTING RESPIRATORY OR ALLERGIC CONDITIONS. HIGHER LEVEL OF LUNG RELATED PROBLEMS AMONG SMOKERS.

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

First Aid:REMOVE FROM EXPOSURE AND OBTAIN PROMPT MEDICAL ATTENTION. IF UNCONSCIOUS,GIVE OXYGEN. IF NOT BREATHING,GIVE CPR. EMPLOY FIRST AID TECHNIQUE

S RECOMMENDED BY AMERICAN RED CROSS. *MONITOR THE FUMES FOR MANGANESE AND CHROMIUM-SEE HEALTH HAZARDS*

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Fire Fighting Measures
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Extinguishing Media:USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE.

Unusual Fire/Explosion Hazard:WELDING ARC AND SPARKS CAN IGNITE COMBUSTIBLE PRODUCTS.

=====
Accidental Release Measures
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Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN SUITABLE DOT APPROVED DISPOSAL CONTAINER.

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Handling and Storage
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Other Precautions:TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES. MONITOR AIR TO ENSURE ACCEPTABLE EXPOSURES. AVOID ELECTRICAL SHOCK BY MAINTAINING DRY WORK AREA.

=====
Exposure Controls/Personal Protection
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Respiratory Protection:FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP EXPOSURE BELOW

TLV.

Ventilation:LOCAL EXHAUST TO MAINTAIN BELOW TLV.

Protective Gloves:WELDER'S GLOVES

Eye Protection:HELMET OR FACE SHIELD WITH FILTER LENS

Other Protective Equipment:SUBSTANTIAL DARK CLOTH,ARM PROTECTOR,APRON,HAT,SHOULDER PROTECTION.

Work Hygienic Practices:WASH HANDS THOROUGHLY BEFORE EATING,SMOKING,USING SANITARY FACILITIES.

Supplemental Safety and Health

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Physical/Chemical Properties
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HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:W

ELDING ROD 0.035 INCHES DIAMETER BY 36 INCHES LONG

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

Stability Indicator/Materials to Avoid: YES

Hazardous Decomposition Products: FUMES OF METALS AND METAL
OXIDES, CO, NO*2, O*3, FLUORIDES

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

Waste Disposal Methods: DISPOSE OF FUME OR FLUX OR WELDING GRINDING
RESIDUE FROM THE WORK AREA OR FROM FILTERS IAW ALL APPLICABLE
LOCAL, STATE AND FEDERAL REGULATIONS.

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