

TELEDYNE MCKAY -- E347 -- 3439-00-892-4396

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

Product ID:E347

MSDS Date:11/01/1986

FSC:3439

NIIN:00-892-4396

MSDS Number: BFVBM

=== Responsible Party ===

Company Name:TELEDYNE MCKAY

Address:850 GRANTLEY ROAD

Box:1509

City:YORK

State:PA

ZIP:17405-1509

Country:US

Info Phone Num:717-845-7581

Emergency Phone Num:717-845-7581

CAGE:76254

=== 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

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

Ingred Name:IRON

CAS:7439-89-6

RTECS #:NO4565500

Fraction by Wt: 67.8%

OSHA PEL:10MG/M3

ACGIH TLV:5MG/M3

Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 19.7%

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: 9.3%
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: 1.95%
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:COLUMBIUM (NIOBIUM) + TANTALUM
CAS:7440-03-1
Fraction by Wt: 0.75%
Other REC Limits:PROPOSD 10MG/M3ACGIH
OSHA PEL:5MG/M3
ACGIH TLV:5MG/M3 (TANTALUM)

Ingred Name:GRAPHITE, SYNTHETIC
CAS:7440-44-0
RTECS #:FF5250100
Fract
ion by Wt: 0.45%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 0.45%
Other REC Limits:5.0MG/M3;RESP.DUST
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:MFR STATES OTHER COVERING INGREDIENTS:OXIDES AND/OR
FLUORIDES OF AL,CA,MG,K,NA,TI.
RTECS #:9999999ZZ

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

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

genicity:NTP:YES IARC:YES OSHA:YES

Health Hazards Acute and Chronic:ACUTE:METALLIC TASTE,NAUSEA,TIGHTNESS OF CHEST,FEVER,DIZZINESS,DRYNESS,IRRITATION OF EYES,NOSE,THROAT. CHRONIC:EXCESSIVE LEVELS MAY CAUSE BRONCHIAL ASTHMA,LUNG FIBROSIS,PNEUMOCONIOSIS. SKIN CONTACT MAY CAUSE DERMATITIS OR ALLERGIC REACTIONS. CR & NI MAY CAUSE LUNG CANCER. MN MAY CAUSE CNS DEPRESS. IRON,GI DISORDERS.

Explanation of Carcinogenicity:CHROMIUM VI IS A HUMAN CARCINOGEN;CHROMIUM III IS A SUSPECTED HUMAN CARCINOGEN. NICKEL IS A SUSPECTED HUMAN CARCINOGEN.

Effects of Overexposure:SEE HEALTH HAZARDS.

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

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

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

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

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Unusual Fire/Explosion Hazard:WELDING ARCS AND SPARKS CAN IGNITE COMBUSTIBLE PRODUCTS.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN APPROPRIATE DOT APPROVED DISPOSAL CONTAINER. USE VACUUM WITH HIGH EFFICIENCY PARTICULATE SYSTEM. MINIMIZE AIRBORNE GENERATION OF POWDER.

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

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 =====

Respiratory Protection:FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR IN CONFINED SPACES OR WHERE VENTILATION DOES NOT KEEP E

XPOSURE 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 PROCTOR,APRON,HAT,SHOULDER PROTECTION.

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

Supplemental Safety and Health

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance

and Odor:WELDING REEL,NO ODOR

===== 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 FUMES,FLUX OR WELD GRINDING RESIDUE FROM THE WORK AREA OR FROM FILTERS IAW ALL APPLICABLE FEDERAL,STATE AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.