

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  
Frac  
tion 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

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

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

ogenicity: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 MA Y 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.

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===== 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 TECHNIQU ES RECOMMENDED BY AMERICAN RED CROSS.

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

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

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===== 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.

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===== 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.

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

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 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.

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