

TELEDYNE MCKAY -- MILD STEEL COVERED ELECTRODES -- 3439-00-165-4186

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

Product ID:MILD STEEL COVERED ELECTRODES

MSDS Date:08/01/1991

FSC:3439

NIIN:00-165-4186

MSDS Number: BMGWV

=== Responsible Party ===

Company Name:TELEDYNE MCKAY

Address:850 GRANTLEY ROAD

Box:1509

City:YORK

State:PA

ZIP:17405

Country:US

Info Phone Num:717-849-2490

Emergency Phone Num:717-849-2490

CAGE:6E078

=== Contractor Identification ===

Company Name:PACIFI

C ENGINEERING AND INDUSTRIAL SUPPLY INC

Address:840 W 1700 S

Box:City:SALT LAKE CITY

State:UT

ZIP:84104-1735

Country:US

Phone:801-974-5940

CAGE:1FJ69

Company Name:TELEDYNE MCKAY

Address:850 GRANTLEY ROAD

Box:1509

City:YORK

State:PA

ZIP:17405

Country:US

Phone:717-849-2490

CAGE:6E078

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

Ingred Name:CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000

Fraction by Wt: 0.1%

Other REC Limits:NONE SPECIFIED

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/

M3; 9192

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 0.50%
Other REC Limits:NONE SPECIFIED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: 0.25% %
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:IRON OXIDE
CAS:1309-37-1
RTECS #:NO7400000
Fraction by Wt: BALANCE
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 MG/M3 (FE)
ACGIH TLV:5 MG/M3(
FE),B2; 9293

Ingred Name:ALUMINUM OXIDE
CAS:1344-28-1
RTECS #:BD1200000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:CALCIUM OXIDE
CAS:1305-78-8
RTECS #:EW3100000
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG/M3
ACGIH TLV:2 MG/M3; 9192

Ingred Name:MAGNESIUM OXIDE
CAS:1309-48-4
RTECS #:OM3850000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 PARTICULATE
ACGIH TLV:10 MG/M3;TDUST; 9293

Ingred Name:POTASSIUM OXIDE
CAS:12136-45-7
RTECS #:TT

3790000
Other REC Limits:NONE SPECIFIED

Ingred Name:SODIUM HYDROXIDE (SARA III)
CAS:1310-73-2
RTECS #:WB4900000
Other REC Limits:NONE SPECIFIED
OSHA PEL:2 MG/M3
ACGIH TLV:C 2 MG/M3; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

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

LD50 LC50 Mixture:NOT SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SHORT TERM OVEREXPOSURE TO FUMES
GENERATED DURING WELDING PROCESSES MAY PRODUCE METAL FUME FEVER.
LONG TERM OVEREXPOSURE MAY RESULT IN SIDEROSIS OR SIMILAR PULMONARY
CONDITIONS. IN ADDITION TO THESE, WELDING HAZARDS INCLUDE ULTRA
VIOLET RADIATION BURNS FROM THE ARC RAYS, THERMAL BURNS AND
ELECTRIC SHOCK.
Explanation of Carcinogenicity:
THE PRODUCT CONTAINS NO INGREDIENT AT
0.1% OR GREATER THAT IS LISTED BY IARC, NTP OR OSHA AS A
CARCINOGEN.
Effects of Overexposure:EYE IRRITATION, SKIN IRRITATION, RESPIRATORY
TRACT IRRITATION
Medical Cond Aggravated by Exposure:PRE-EXISTING RESPIRATORY ILLNESSES
AND/OR ALLERGIES MAY BE AGGRAVATED BY EXPOSURE TO WELDING FUMES.

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

First Aid:ADMINISTER FIRST AID AS RECOMMENDED BY THE AMERICAN RED
CROSS. INHALE

D:REMOVE FROM EXPOSURE. SUPPORT OR RESTORE BREATHING AND GET MEDICAL ATTENTION AS NEEDED. ELECTRICAL SHOCK:TURN OFF POWER, ADMINISTER FIRST AID AND GET IMMEDIATE MEDICAL ATTENTION. THERMAL AND RADIATION BURNS;SKIN:NORMAL FIRST AID. SEE DOCTOR IF NEEDED. RADIATION BURNS;EYES:GET IMMEDIATE MEDICAL CARE.

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

Flash Point:NON-FLAMMABLE

Extinguishing Media:PRODUCT IS NON FLAMMABLE. EXTINGUISH FIRE WITH MEDIA APPR

OPRIATE FOR SOURCE OF FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING FIRE.

Unusual Fire/Explosion Hazard:ARCS, SPARKS OR HOT METAL FROM A WELDING OPERATION MAY IGNITE NEARBY COMBUSTABLE MATERIAL.

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

Spill Release Procedures:SWEEP UP DUST AND SPILLED MATERIALS. STORE FOR PROPER DISPOSAL. HMIS:USE CAUTION NOT TO RAISE NOR TO BREATHE DUST DURING S

WEEPING.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:MAINTAIN GOOD HOUSEKEEPING PROCEDURES TO PREVENT DUST ACCUMULATION FROM GRINDING, ETC.

Other Precautions:READ AND UNDERSTAND MFR'S INSTRUCTIONS AND PRECAUTIONARY LABEL ON THE PRODUCT. FOLLOW ALL PROCEDURES IN ANSI Z49.1 AND OSHA 29 CFR 1910. PERIODIC MEDICAL EXAMINATIONS ARE RECOMMENDED FOR INDIVIDUALS REGULARLY EXPOSED TO DUST OR FUME.

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

Respiratory Protection:NONE NEEDED FOR ELECTRODES AS RECEIVED. USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN AN ENCLOSED AREA OR WHEN LOCAL EXHAUST DOES NOT MAINTAIN EXPOSURE BELOW THE PEL OR TLV.

Ventilation:USE VENTILATION OR LOCAL EXHAUST AT THE ARC TO KEEP THE FUMES & GASES AT THE WORKERS BREATHING ZONE BELOW THE PEL/TLV.

Protective Gloves:WELDER'S GLOVES

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ye Protection:HELMET/FACE SHIELD W/ANSI LENS

Other Protective Equipment:WEAR HAND, HEAD, AND BODY PROTECTION WHICH
HELP TO PREVENT INJURY FROM RADIATION, SPARKS, AND ELECTRICAL
SHOCK/

Work Hygienic Practices:HMIS: USE GOOD INDUSTRIAL HYGIENE PRACTICE.

WASH AFTER USING THE PRODUCT AND BEFORE EATING, DRINKING, ETC.

Supplemental Safety and Health

KEY2:KT TRAIN WELDER TO AVOID ELECTRICAL SHOCK BY MAINTAINING A DRY
AREA AND INSULATING HIMSELF FROM HIS WORK AND GROUND.

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

HCC:N1

NRC/State Lic Num:NONE

Appearance and Odor:SOLID METAL ROD 5/32 IN. DIA. X 14 IN LONG

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

Stability Indicator/Materials to Avoid:YES

NO INFORMATION GIVEN ON MSDS BY MFR.

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:WELDING AND CUTTING FUMES CANNOT BE
CLASSIFIED AND WILL VARY WITH ELECTRODE, BASE METAL FLUX AND
PROCESS USED.

Conditions to

Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF FUME OR WELDING GRINDING RESIDUES
FROM WORK AREA AND FILTERS IN ACCORDANCE WITH ALL APPLICABLE LOCAL,
STATE AND FEDERAL REGULATIONS.

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