

TELEDYNE MCKAY -- LOW ALLOY LOW H CVRD ELECTRODE, 8018-C3 XLM -- 3439-00-465-1920
===== Product Identification =====

Product ID:LOW ALLOY LOW H CVRD ELECTRODE, 8018-C3 XLM

MSDS Date:03/01/1989

FSC:3439

NIIN:00-465-1920

MSDS Number: BJRZ

=== Responsible Party ===

Company Name:TELEDYNE MCKAY

Address:850 GRANTLEY ROAD

Box:1509

City:YORK

State:PA

ZIP:17405-1509

Country:US

Info Phone Num:717-849-2490;

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:GRAPHITE, SYNTHETIC

CAS:7440-44-0

RTECS #:FF5250100

Fraction by Wt: 0.05%

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name:MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000

Fract

ion by Wt: 0.9%
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: 0.45%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 0.95%
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: BALANCE

Ingred Name:ALPHA-ALUMINA (ALUMINUM OXIDE) (EPA LISTS ONLY FIBROUS
FORMS) (SARA III)
CAS:134
4-28-1
RTECS #:BD1200000
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:CALCIUM OXIDE
CAS:1305-78-8
RTECS #:EW3100000
OSHA PEL:5 MG/M3
ACGIH TLV:2 MG/M3; 9192

Ingred Name:MAGNESIUM OXIDE
CAS:1309-48-4
RTECS #:OM3850000
OSHA PEL:15 MG/M3 PARTICULATE
ACGIH TLV:10 MG/M3;TDUST; 9293

Ingred Name:POTASSIUM OXIDE
CAS:12136-47-7
RTECS #:TT3790000

Ingred Name:SODIUM OXIDE
CAS:1313-59-3

Ingred Name:STRONTIUM OXIDE
CAS:1314-11-0

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:

XR2275000
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:CALCIUM FLUORIDE
CAS:7789-75-5
RTECS #:EW1760000

Ingred Name:WELDING FUME (NOC) (AS A RESULT OF PRODUCT USE)
OSHA PEL:5 MG/M3
ACGIH TLV:5 MG/M3

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:CHRONIC EXP
OSURE TO WELDING FUMES AND
THEIR ORIGINS CAN VARY GREATLY IN EFFECT AND LENGTH. GENERALLY,
THESE RANGE FROM SIMPLE IRRITATION TO SEVERELY DEBILITATING CNS
EFFECTS AS WELL AS LUNG FIBROSIS AND RESPIRATORY HYPERSENSITIVITY

Explanation of Carcinogenicity:NICKEL: CLASS 1 (IARC), CLASS 2 (NTP)
Effects of Overexposure:INHAL: IRRITATION WITH DRY THROAT, COUGHING,
CHEST TIGHTNESS, FATIGUE, VOMITING AND HEADACHE. SOME ALLERGIC
RESPONSES MAY BE EXHIBITED BY EXPOSED EMPLOYEES.

Medical Cond Aggravated by Exposure:PREEXISTING RESPIRATORY OR ALLERGIC
CONDITIONS.

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

First Aid:INHAL: REMOVE FROM EXPOSURE. IF VICTIM IS UNCONSCIOUS,
ADMINISTER OXYGEN. IF NOT BREATHING, RESUSCITATE IMMEDIATELY. GET
MD.

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

Extinguishing Media:USE MEDIA SUITABLE FOR SURROUNDING FIRE .
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA AND FULL

PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:THE WELDING ARC AND SPARKS (SPATTER/SLAG) CAN IGNITE COMBUSTIBLE AND FLAMMABLE MATERIALS.

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

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.
Other Precautions:UTILIZE APPROPRIATE SHIELDS/SCREENS TO MINIMIZE UV RADIATION IN THE WORK PLACE DURING WELDING OPERATIONS . TRAIN WELDER TO KEEP HIS HEAD OUT OF THE FUMES.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRABLE FUME RESPIRATOR OR SUPPLIED AIR RESPIRATOR WHEN WELDING IN CONFINED SPACES. MONITOR TOXIC GASES, FUMES.
Ventilation:LOCAL EXHAUST AT ARC TO KEEP FUMES AND GASES FROM WORKER'S BREATHING ZONE AND THE GENERAL AREA.

Protective Gloves:LEATHER WELDERS GLOVES
Eye Protection:HELMET/FACESHIELD W/SHADED LENS
Other Protective Equipment:WEAR HAND, HEAD, AND BODY PROTECTION. WEAR DARK SUBSTANTIAL CLOTHING.
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.
Supplemental Safety and Health
AVOID ELECTRICAL SHOCK BY MAINTAINING A DRY WORK AREA; INSULATE WELDER FROM WORK AND GROUND AND TRAIN WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS.

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

Appearance and Odor:LOW ALLOY STEEL ARC WELDING ELECTRODE

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

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:COMPLEX OXIDE AND FLUORIDE COMBINATIONS OF ALL ELECTRODE INGREDIENTS.

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

Waste Disposal Methods:DISPOSE OF FUME OR FLUX OR WELDING GRIND

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RESIDUES FROM THE WORK AREA OR FROM FILTERS IN ACCORDANCE WITH EPA
OR LOCAL REGULATIONS.

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