

TWECO PROD INC -- ARCAIR AIR CARBON ARC ELECTRODES, 22 -- 3439-01-268-3403
===== Product Identification =====

Product ID:ARCAIR AIR CARBON ARC ELECTRODES, 22

MSDS Date:10/31/1990

FSC:3439

NIIN:01-268-3403

Kit Part:Y

MSDS Number: CFQYC

=== Responsible Party ===

Company Name:TWECO PROD INC

Address:4200 WEST HARRY ST

Box:12250

City:WICHITA

State:KS

ZIP:67277

Country:US

Info Phone Num:316-942-1421

Em

ergency Phone Num:316-648-5129

Preparer's Name:DENNIS WILSON

CAGE:NO334

=== Contractor Identification ===

Company Name:TWECO PROD INC

Address:4200 WEST HARRY ST

Box:12250

City:WICHITA

State:KS

ZIP:67277

Country:US

Phone:316-942-1421

CAGE:NO334

Company Name:TWECO PRODUCTS, INC.

Address:4200 WEST HARRY ST.

Box:12250

City:WICHITA

State:KS

ZIP:67277

Country:US

Phone:316-946-8308;316-942-1421

CAGE:89381

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

Ingred Name:CARBON

CAS:7440

-44-0
RTECS #:FF5250100
Fraction by Wt: 20-90%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:2 MG/M3 TDUST

Ingred Name:GRAPHITE; (GRAPHITE, SYNTHETIC)
CAS:7782-42-5
RTECS #:MU9659600
Fraction by Wt: 20-90%
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:2 MG/M3 TDUST

Ingred Name:COPPER (SARA 313) (CERCLA)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 10-30%
OSHA PEL:0.1MG/M3 FUME;1 DUST
ACGIH TLV:0.2 MG/M3 FUME
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:CARBON BLACK
CAS:1333-86-4
RTECS #:FF5800000
OSHA PE
L:3.5 MG/M3
ACGIH TLV:3.5 MG/M3

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:FUME: BRONCHITIS, LUNG DEPOSITS AND
TISSUE DAMAGE WHICH MAY BE IRREVERSIBLE. EXPOSURE TO ULTRA-VIOLET
ARC RAYS CAN RESULT IN KERATOCONJUNCTIVITIS, CAUSING INFLAMMATION,
BLURRED VISION, HEADACHE
CHE-"SUNBURN".
Explanation of Carcinogenicity:CARBON BLACK: IARC MONOGRAPHS, VOL 65,
PG 149, 1996: GROUP 2B ANIMAL LUNG.
Effects of Overexposure:BREATHING DIFFICULTY, HEADACHE, NAUSEA, DRYNESS
OR IRRITATION OF NOSE, THROAT, EYES. BURNING SENSATION OF SKIN OR
EYES. UNCONSCIOUSNESS.
Medical Conditions Aggravated by Exposure:RESPIRATORY PROBLEMS, ERYTHEMAS.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF BREATHING IMPAIRED,

ASSISTED RESPIRATION MAY BE REQUIRED. INGEST: CALL MD IMMEDIATELY .
EYES: IMMEDIATELY FLUSH W/POTABLE WATER FOR A MINIMUM OF 15
MINUTES, S EEK ASSISTANCE FROM MD . SKIN: TREAT U.V. EXPOSURE
SIMILAR TO SEVERE SUNBURN, SEEK MEDICAL ATTENTION.

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

Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE .

Fire Fighting Procedures:USE NIOSH APPROVED SCBA AND FULL PROTECTIVE
EQUIPMENT .

Unusual Fire/Explosion Hazard
:NONE.

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

Spill Release Procedures:SWEEP OR PICK UP. BE ALERT TO "HOT ENDS".

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN DRY AREA. ELECTRODES EXPOSED
TO MOISTURE MAY EXPLODE VIOLENTLY IF USED. DRY MOIST RODS BY BAKING
AT 300F FOR TEN HOURS.

Other Precautions:READ & UNDERSTAND "AMERICAN NATIONAL STANDARD Z
49.1";

SUBPART Q OF OSHA 29 CFR 1910.252; "SAFETY IN WELDING & CUTTING" BY
AMERICAN WELDING SOCIETY. CAUTION: USE IN CONFINED AREAS CAN RSLT
IN CARBON MO NOXIDE POISONING/DEATH. NIOSH (SUPDAT)

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

Respiratory Protection:NIOSH APPROVED SUPPLIED OR FUME RESPIRATOR
SHOULD BE USED IF VENTILATION IS INSUFFICIENT.

Ventilation:ALL AS REQUIRED TO REDUCE FUMES GENERATED BY EACH SPECIFIC
APPLICATION BELOW ACGIH TLV.

Prot

ective Gloves:WELDERS GLOVES.

Eye Protection:FACESHIELD OR WELDERS HELMET (SUPDAT)

Other Protective Equipment:FOOTWEAR SUITABLE FOR METAL WORKING. DARK,
SUBSTANTIAL-APRONS, ETC. ANSI APPROVED EYE WASH & DELUGE SHOWER .

Work Hygienic Practices:OPERATOR TRAINED TO AVOID ELECTRICAL SHOCK AND
U.V. RAY EXPOSURE.

Supplemental Safety and Health

OTHER PRECAUTIONS: APPROVVED AIR SUPPLIED RESPIRATOR IS RECOMMENDED
WHEN USED INDOORS. EYE PROTECTION: WITH #12 OR DARKER LENS.

=====

Physical/Chemical Properties =====

Appearance and Odor:NO NOTABLE ODOR, COPPER COATED BLACK ROD.

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

Stability Indicator/Materials to Avoid:YES

NONE KNOWN.

Stability Condition to Avoid:NOT APPLICABLE.

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,
TRACES OF COPPER FUME (OZONE, NITROGEN OXIDE FROM ELECTRIC ARC AND
UV RAYS).

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

==

Waste Disposal Methods:SOLID LANDFILL IF LOCAL REGULATIONS ALLOW.
DISPOSAL MUST BE IN ACCORDANCE WITH 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
do

cument should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.