

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

Product ID: AIR CARBON ARC ELECTRODES

MSDS Date: 01/01/1991

FSC: 3439

NIIN: 00-870-9934

MSDS Number: BNNGB

=== Responsible Party ===

Company Name: WORLD WIDE WELDING INC.

Address: 3300-G WOODPARK BLVD

Box: 217006

City: CHARLOTTE

State: NC

ZIP: 28206

Country: US

Info Phone Num: 704-596-0123

Emergency Phone Num: 704-596-0123

CAGE: 59754

=== Contractor Identification ===

Company Name: WORLD WIDE WELDING INC

Address: 3300-S WOODPARK BLVD

Box: 217006

City: CHARLOTTE

State: NC

ZIP: 28221

Country: US

Phone: 704-596-0123

CAGE: 59754

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

Ingred Name: GRAPHITE, NATURAL

CAS: 7782-42-5

RTECS #: MD9659600

Fraction by Wt: 20-80%

Other REC Limits: NONE SPECIFIED

OSHA PEL: 15 MPPCF RDUST

ACGIH TLV: 2 MG/M3 RDUST; 9293

Ingred Name: GRAPHITE, SYNTHETIC

CAS: 7440-44-0

RTECS #: FF5250100

Fraction by Wt: 20-80%

Other REC Limits: N

ONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:2 MG/M3 TDUST; 9293

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 10-30%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2MG/M3 FUME; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:CARBON BLACK
CAS:1333-86-4
RTECS #:FF5800000
Other REC Limits:NONE SPECIFIED
OSHA PEL:3.5 MG/M3
ACGIH TLV:3.5 MG/M3; 9192

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

LD50
LC50 Mixture:TLV FOR WELDING FUMES IS 5 MG/M3
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic: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 "SUNBURN".
Effects of Overexposure:BREATHING DIFFICULTY, HEADACHE, NAUSEA, DRYNESS
OR IRRITATION OF NOSE, TH
ROAT AND EYES. BURNING SENSATION OF EYES.
UNCONSCIOUSNESS.
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:INHALATION: REMOVE FROM EXPOSURE. IF BREATHING IS DIFFICULT,
GIVE OXYGEN. IF NOT BREATHING, GIVE CPR. IF NO DETECTABLE PULSE,
GIVE HEART MASSAGE. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR A

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LEAST 15 MINUTES. SKIN: WASH WITH SOAP AND WATER. INGESTION: SEEK MEDICAL ATTENTION. TREAT UV EXPOSURE SIMILAR TO SEVERE SUNBURN.

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

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:ARCS AND SPARKS CAN IGNITE COMBUSTIBLE MATERIALS.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUE AND PLACE IN APPROPRIATE DISPOSAL CONTAINER. AVOID INHALATION AND SKIN EXPOSURE.

===== 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: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 EXPOSURE BELOW TLV.

Ventilation:LOCAL EXHAUST TO KEEP BELOW TLV.

Protective Gloves:WELDER'S GLOVES.

Eye Protection:HE

LMET OR FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:SUBSTANTIAL DARK CLOTH, ARM PROTECTOR, APRON, HAT AND SHOULDER PROTECTION. AIR SAMPLING TO DETERMINE CORRECTIVE MEASURES

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

Supplemental Safety and Health
NONE.

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

HCC:N1

Solubility in Water:INSOLUBLE.

Appearance and Odor:CUTTING ELECTRODE.

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Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES
NONE

Stability Condition to Avoid: NONE

Hazardous Decomposition Products: FUMES OF METALS AND METAL OXIDES FROM
ELECTRODE AND BASE METAL, CARBON MONOXIDE, CARBON DIOXIDE, OZONE,
NITROGEN OXIDES.

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

Waste Disposal Methods: CONSULT WITH YOUR LOCAL ENVIRONMENTAL OFFICER.
DISPOSE OF FUMES, FLUX OR WELD GRINDING RESIDUE FROM THE WORK
AREA
OR FROM FILTERS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL
ENVIRONMENTAL REGULATIONS.

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