

LINCOLN ELECTRIC CO -- JETWELD 3, ALL SIZES (COVERED ELECTRODE)

=====
MSDS Safety Information
=====

FSC: 3439
NIIN: 00-267-7354
MSDS Date: 03/13/1995
MSDS Num: CDGNR
Product ID: JETWELD 3, ALL SIZES (COVERED ELECTRODE)
MFN: 04
Responsible Party
Cage: 36232
Name: LINCOLN ELECTRIC CO
Address: 22801 ST CLAIR AVE
City: E
UCLID (FORMALLY IN CLEVELAND) OH 44117-1199
Info Phone Number: 216-481-8100
Emergency Phone Number: 216-481-8100
Review Ind: Y
Published: Y

=====
Preparer Co. when other than Responsible Party Co.
=====

Cage: 36232
Name: THE LINCOLN ELECTRIC CO
Address: 22801 ST CLAIR AVE
City: EUCLID OH 44117-1199

=====
Contractor Summary
=====

Cage: 36232
Name: THE LINCOLN ELECTRIC CO
Address: 22801 ST CLAIR AVE
City: EUCLID OH 44117-1199
Phone: 216-481-8100

=====
Item Description Information
=====

Item Name: ELECTRODE, WELDING
Specification Number: AWSA5.1-81
Type/Grade/Class: AWS E7024
Type of Container: UNKNOWN

=====
Ingredients
=====

=====

Cas: 7439-89-6
RTECS #: NO4565500
Name: IRON
% Wt: 30
Other REC Limits: NONE RECOMMENDED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

Cas: 13463-67-7
RTECS #: XR2275000
Name: TITANIUM DIOXIDE (AS TI)
% Wt: 10
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 10 MG/M3 TDUST; 9596

Cas: 1344-09-8
Name: SILICATES AND OTHER BINDERS
% Wt: <5
Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

Cas: 7439-96-5
RTECS #: OO9275000
Name: MANGANESE (SARA 313) & /OR MANGANESE ALLOYS & COMPOUNDS (AS MN)
% Wt: <5
Other REC Limits: NONE RECOMMENDED
OSHA PEL: C, 5 MG/M3 (FUME)
ACGIH TLV: 0.2 MG/M3; 9596

Cas: 1332-58-7
RTECS #: GF1670500
Name: KAOLIN; MINERAL SILICATES
% Wt: <5
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 2 MG/M3 TDUST; 9596

--

Cas: 14808-60-7
RTECS #: VV7330000
Name: SILICA, CRYSTALLINE - QUARTZ
% Wt: <5
Other REC Limits: NONE RECOMMENDED
OSHA PEL: SEE TABLE Z-3
ACGIH TLV: 0.1 MG/M3 RDUST;9596

Cas: 65996-61-4
Name: CELLULOSE AND OTHER CARBONYDRATES
% Wt: <5
Other REC Limits: NONE RECOMMENDED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED

Cas: 1344-28-1
RTECS #: BD1200000
Name: ALPHA-ALUMINA (ALUMINUM OXIDE) (SARA 313
) ; ALUMINUM OXIDE & ;/OR
BAUXITE
% Wt: 1
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 10 MG/M3 TDUST; 9596

Cas: 7440-21-3
RTECS #: VW0400000
Name: SILICON & ;/OR SILICON ALLOYS & ; COMPOUNDS (AS SI)
% Wt: 0.5
Other REC Limits: NONE RECOMMENDED
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 10 MG/M3 TDUST; 9596

Cas: 7439-89-6
RTECS #: NO4565500
Name: CARBON STEEL CORE WIRE
% Wt: 45
Other REC Limits: NONE RECOMMEN
DED
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
=====

Health Hazards Data
=====

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: YES
Carcinogenicity Inds - NTP: YES
IARC: YES
OSHA: NO
Effects of Exposure: ELECTRIC ARC WELDING MAY CREATE 1 OR MORE OF
FOLLOWING:FUMES/GASES CAN BE DANGEROUS TO HEALTH.ACUTE:WELD FUMES EXPO MAY

RESULT IN DISCOMFT-METAL FUME FEVER,DIZZ,NMAU,DRY/IRRIT OF NOSE/THROAT/EYE.CHRON IC:SIDEROSIS,AFFECT PULM FUNCTION.MN EXPO AFFECT CNS-IMPAIR SPEECH/MOVEMENT.BRONCHITIS,LUNG FIBROSIS.ARC RAYS (SUPPLEME)

Explanation Of Carcinogenicity: PER MSDS:CRYSTALLINE SILICA (QUARTZ) ON IARC/NTP AS POSING CARCINOGENIC RISK TO HUMANS.

Signs And Symptions Of Overexposure: SEE HEALTH HAZARDS.

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid: CALL FOR MEDICAL AID.EMPLOY 1ST AID

TECHNIQUES RECOMMENDED BY

AMERICAN RED CROSS.IF BREATHING DIFFICULT GIVE OXY.NOT BREATHING EMPLOY CPR TECHNIQUES.IN CASE OF ELECTRICAL SHOCK TURN OFF POWER & FOLLOW RECOMMENDED TREATMENT.IN ALL CASES CALLPHYSICIAN.

=====
Handling and Disposal
=====

Spill Release Procedures: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DISCARD ANY PRODUCT/RESIDUE/DISPOSABLE CNTNR/LINER AS OR

DINARY WASTE N ENVIRONMENTALLY ACCEPTABLE MANNER UNLESS OTHERWISE NOTRED. CONTAINS CHEM(S) SUBJ TO REPORTING REQMTS OF SEC 311,312,313 OF EPCRA /40CFR370/372.

Handling And Storage Precautions: READ/UNDERSTAND INSTRUCT/PRECAUT LABEL.INSULATE FROM WORK/GROUND.

Other Precautions: USE:SEMIAUTOMATIC DC WELD,DC MANUAL(STICK)WELD,AC WELD W/RED VOTAGE CNTRL.DETERMINE COMPO/QUAN OF FUME/GAS WORKER EXPO:TAKE AIR SMPL INSIDE HELMET/BREATH ZONE.SEE ANSI/AWS F1.1;F1.2;F1.4;F1.5 FROM AME R WELD S

OC,550NW LEJEUNE RD,MI,FL33216.

=====
Fire and Explosion Hazard Information
=====

Flash Point Text: NON-FLAMMABLE

Extinguishing Media: NONE SPECIFIED BY MANUFACTURER. :USE APPROPRIATE FIRE EXTINGUISHING MEDIA FOR SURROUNDING FIRE/MATLS.

Fire Fighting Procedures: NONE SPECIFIED BY MANUFACTURER.

Unusual Fire/Explosion Hazard: WELDING ARC/SPARKS CAN IGNITE COMBUSTIBLES & FLAMMABLE PRODUCTS.

=====
Control Measures
=====

Respiratory Protection: USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE/GENERAL WORK AREA WHEN LCO EXHAU/VENTI DOES NOT KEEP EXPO BELOW TLV.

Ventilation: USE ENOUGH VENTI/LOC EXHA @ARC/BOTH TO KEEP FUME/GAS FROM WORKER BREATH ZONE/GEN AREA.TRAIN WELDER KEEP HEAD OUT OF FUME

Protective Gloves: WELDER GLOVES.

Eye Protection

: HELMET, FSHIELD W/FILTER LENSES #14/DARKR

Other Protective Equipment: SHIELD OTHERS BY PROVIDING SCREENS/FLASH GOGG. HAND/HEAD/BODY PROT FROM RADIATION/SPARKS/ELECTR SHOCK.

Work Hygienic Practices: TRAIN WELDER NOT TO PERMIT ELECTRICALLY LIVE PARTS/ELECTRODE TO CONTACT SKIN/CLOTH/GLOVE WHEN WET.

Supplemental Safety and Health: HAZ DECOMPO PROD: AREA VOL/QUALITY/AMT OF VENTI/WELDER HEAD POSITION/ATM CONTAMIN. REASONABLY EXPECT: FE OXIDE, 2ND COMPLEX OXIDES OF MN/K/SI/NA/TI, CO2, CO, OZONE, N OXI

DES. HEALTH: INJURE EYE, BURN SKIN. ELECTRIC SHOCK CAN KILL.

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

HCC: N1
=====

Reactivity Data
=====

Stability Indicator: YES

Stability Condition To Avoid: NONE SPECIFIED BY MANUFACTURER.

Materials To Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decompositio

n Products: WELD FUME/GAS CAN'T BE CLASSIFIED

SIMPLY. DEPEND ON METAL WELD/PROCESS/PROCEDURE/ELECTRODES/COATING/# OF WELDER/WORK(SUPPL)

Hazardous Polymerization Indicator: NO
=====

Toxicological Information
=====

Ecological Information
=====

=====
MSDS Transport Information
=====

Regulatory Information
=====

Other Information
=====

Transportation Information
=====

Re

Responsible Party Cage: 36232
Trans ID NO: 64116
Product ID: JETWELD 3, ALL SIZES (COVERED ELECTRODE)
MSDS Prepared Date: 03/13/1995
Review Date: 03/12/1997
MFN: 4
Net Unit Weight: UNKNOWN
Multiple KIT Number: 0
Review IND: Y
Type Of Container: UNKNOWN

=====
Detail DOT Information
=====

DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
=====

=====
Detail IMO Information
=====

IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
=====

=====
Detail IATA Information
=====

IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
=====

=====
Detail AFI Information
=====

AFI PSN Code: ZZZ
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
=====

=====
HAZCOM Label
=====

Product ID: JETWELD 3, ALL SIZES (COVERED ELECTRODE)
Cage: 36232
Company Name: THE LINCOLN ELECTRIC CO
Street: 22801 ST CLAIR AVE
City: EUCLID OH
Zipcode: 44117-1199
Health Emergency Phone: 216-481-8100
Label Required I

ND: Y
Date Of Label Review: 03/12/1997
Status Code: C
Label Date: 03/12/1997
Origination Code: F
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: CAUTION
Respiratory Protection IND: YES
Health Hazard: Slight
Contact Hazard: Slight
Fire Hazard: None
Reactivity Hazard: None

Hazard And Precautions: ELECTRIC ARC WELDING MAY CREATE 1 OR MORE OF FOLLOWING:FUMES/GASES CAN BE DANGEROUS TO HEALTH.ACUTE:WELD FUMES EXPO MAY RESULT IN DISCOMFT-METAL FUME FEVER,DIZZ,NAU ,DRY/IRRIT OF NOSE/THROAT/EYE.CHRONI C:SIDEROSIS,AFFECT PULM FUNCTION.MN EXPO AFFECT CNS-IMPAIR SPEECH/MOVEMENT.BRONCHITIS,LUNG FIBROSIS.ARC RAYS CAN INJURE EYE,BURNS SKIN.ELECTRIC SHOCK CAN KILL. FIRST AID: CALL FOR MEDICAL AID.EMPLOY 1 STAID TECHNIQUES RECOMMENDED BY AMERICAN RED CROSS.IF BREATHING DIFFICULT GIVE OXY.NOT BREATHING EMPLOY CPR TECHNIQUES.IN CASE OF ELECTRICAL SHOCK TURN OFF POWER & FOLLOW RECOMMENDED TREATMENT.IN ALL CASES CALL PHYSICIAN.

=====

=====

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, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United

States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.