

LINCOLN ELECTRIC CO -- CODE ARC 8018-B2 MR

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MSDS Safety Information
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FSC: 3439
NIIN: 00-967-2725
MSDS Date: 04/15/1993
MSDS Num: CDZWH
Product ID: CODE ARC 8018-B2 MR
MFN: 01
Responsible Party
Cage: 36232
Name: LINCOLN ELECTRIC CO
Address: 22801 ST CLAIR AVE
City: CLEVELAND OH 44117-1199

Info Phone Number: 216-481-8100
Emergency Phone Number: 216-481-8100
Published: Y

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

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Item Description Information
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Item Name: ELECTRODE,WELDI
NG

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Ingredients
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Cas: 7439-89-6
RTECS #: NO4565500
Name: IRON
% Wt: 10
OSHA PEL: 10 MG/M3 (MFR)
ACGIH TLV: 10 MG/M3 (MFR)

Cas: 1317-65-3
RTECS #: EV9580000
Name: CALCIUM CARBONATE; (LIMESTONE)
% Wt: 10
OSHA PEL: 15 MG/M3 TDUST
ACGIH TLV: 10 MG/M3 TDUST

Cas: 7789-75-5
RTECS #: EW1760000
Name: CALCIUM FLUORIDE; (FLUORIDES) (AS

F)

% Wt: <5

OSHA PEL: 2.5 MG/M3 (MFR)

ACGIH TLV: 2.5 MG/M3 (MFR)

Cas: 1344-09-8

Name: SODIUM SILICATE; (SILICATES AND OTHER BINDERS)

% Wt: <5

OSHA PEL: 10 MG/M3 (MFR)

ACGIH TLV: 10 MG/M3 (MFR)

Cas: 1332-58-7

RTECS #: GF1670500

Name: CLAY (KAOLIN); (MINERAL SILICATES)

% Wt: <5

OSHA PEL: 15 MG/M3 TDUST

ACGIH TLV: 2 MG/M3 TDUST

Cas: 13463-67-7

RTECS #: XR2275000

Name: TITANIUM OXIDE; (TITANIUM DIOXIDE)

% Wt: <5

OSHA PEL: 15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST

Cas: 7440-47-3

RTECS #: GB4200000

Name: CHROMIUM; (CHROMIUM AND CHROMIUM ALLOYS OR COMPOUNDS) (AS CR) (SARA 313) (CERCLA)

% Wt: 1

OSHA PEL: 1 MG/M3

ACGIH TLV: 0.5 MG/M3

EPA Rpt Qty: 1 LB

DOT Rpt Qty: 1 LB

Cas: 7440-21-3

RTECS #: VW0400000

Name: SILICON; (SILICON AND/OR SILICON ALLOYS AND COMPOUNDS) (AS SI)

% Wt: 1

OSHA PEL: 15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST

Cas: 1633-05-2

Name: STRONTIUM CARBONATE; (STRONTIUM COMPOUNDS (AS SR))

% Wt: 0.5

OSHA PEL: 10 MG/M3 (MFR)

ACGIH TLV: 10 MG/M3 (MFR)

Cas: 7439-96-5

RTECS #: OO9275000

Name: MANGANESE; (MANGANESE AND/OR MANGANESE ALLOYS AND COMPOUNDS (AS MN))
(SARA 313)

% Wt: 0.5

OSHA PEL: 5 MG/M3 DUST, C

ACGIH TLV: 5 MG/M3 DUST

Cas: 7439-98-7

RTECS #: QA4680000

Name: MOLYBDENUM; (MOLYBDENUM ALLOYS (AS MO))

% Wt: 0.5

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SHA PEL: 10 PPM

ACGIH TLV: 10 PPM

Cas: 14808-60-7

RTECS #: VV7330000

Name: SILICA, CRYSTALLINE - QUARTZ; (QUARTZ)

% Wt: <0.5

OSHA PEL: 0.1 MG/M3 (MFR)

ACGIH TLV: 0.1 MG/M3 RDUST

Cas: 7439-89-6

RTECS #: NO4565500

Name: IRON; (CARBON STEEL CORE WIRE)

% Wt: 60

OSHA PEL: 10 MG/M3 (MFR)

ACGIH TLV: 10 MG/M3 (MFR)

Name: SUPDAT:CHROMIUM, MANGANESE, POTASSIUM, SILICON, SODIUM & STRONTIUM.
GASEOUS RXN PRO

DS MAY INCL CARBON MONOXIDE &

Name: ING 14:CARBON DIOXIDE. OZONE & NITROGEN OXIDES MAY BE FORMED BY RADIA
FROM THE ARC. FOR MORE INFO CONTACT NEHC (FP N).

Name: EYE PROT:FULL LGTH FSHLD (FP N) W/FILTER LENS SHADE NUMBER 12/DARKER.
SHIELD OTHER BY PROVIDING SCREENS & FLASH GOGGS.

Name: OTHER PROT EQUIP:IF WELDING MUST BE PERFORMED IN DAMP LOCATIONS OR W/WET
CLTHG, ON METAL STRUCTURES/WHEN I

N

Name: ING 17:CRAMPED POSITIONS SUCH AS SITTING, KNEELING/LYING, IF THERE IS
HIGH RISK OF UNAVOIDABLE/ACCIDENTAL CONT

Name: ING 18:WORKPIECE, USE FOLLOWING: SEMIAUTOMATIC DC WELDER, DC MANUAL
(STICK) WELDER/AC WELDER W/REDUCE VOLTAGE CONTROL.

Name: EFTS OF OVEREXP:CALCIFICATION OF BONE & CALCIFICATION OF LIGAMENTS OF
RIBS, PELVIS & SPINAL COLUMN. MAY CAUSE

Nam

e: ING 20:SKIN RASH. CHROMIUM IS ON IARC & NTP LISTS AS POSING A CARCIN
RISK TO HUMANS (MFR). ARC RAYS CAN INJURE

Name: ING 21:EYES & BURN SKIN. ELECTRIC SHOCK CAN KILL.
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Health Hazards Data
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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: FUMES & GASES CAN BE DANGEROUS TO YOUR HLTH.

ACUTE:OVEREXP TO WELDING FUMES MAY RSLT IN DISCOMFORT SUCH AS METAL FUME
FEVER, DIZZ, NAUS OR DRYNESS/IRRIT OF NOSE, THROAT/EYES. EXPOS TO EXTREMELY
HIGH L EVELS OF FLUORIDES CAN CAUSE ABDOM PAIN, DIARR, MUSCULAR WEAK &
CONVLS. IN EXTREME CASES IT CAN CAUSE (EFTS OF OVEREXP)

Explanation Of Carcinogenicity: SILICA, CRYSTALLINE-QUARTZ:IARC MONO, VOL 68,
1997, GROUP 1; NTP 7TH ANNUAL RPT ON CARCINS, 1994: (
SUPP DATA)

Signs And Symptions Of Overexposure: HLTH HAZ:LOSS OF CONSCIOUSNESS &
DEATH. CHRONIC:OVEREXP TO WELDING FUMES CAN LEAD TO SIDEROSIS (IRON DEPOSITS
IN LUNG) & MAY AFFECT PULM FUNC. MANGANESE OVEREXP CAN AFFECT CNS, RSLTG
IN IMPAIRED SPEEC H & MOVEMENT. BRONCH & SOME LUNG FIBROSIS HAVE BEEN
BEEN REPORTED. RPTD EXPOS TO FLUORIDES MAY CAUSE EXCESSIVE

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid: CALL FOR MED AID. EMPLOY FIRST-AID

TECHNIQUES REC BY THE AMERICAN
RED CROSS. INGEST:CALL MD IMMED (FP N). EYES:IMMED FLUSH W/POTABLE WATER FOR
MIN OF 15 MINS, SEEK ASSISTANCE FROM MD (FP N). SKIN:FLUS H W/COPIOUS AMTS OF
WATER. CALL MD (FP N). INHAL:IF BRTHG IS DFCLT GIVE OXYG. IF NOT BRTHG EMPLOY
CPR TECHNIQUE. IN CASE OF ELEC SHOCK, TURN OFF POWER & FOLLOW REC
TREATMENT. IN ALL CASES, CALL MD.

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Handling and Disposal
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Spill Release Procedures: NONE SPECIFIED BY MANUFACTURER.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DISPOSAL MUST BE I/A/W FEDERAL, STATE & LOCAL
REGULATIONS (FP N). DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR
LINER AS ORDINARY WASTE IN AN ENVIRONMENTAL ACCEPTABLE MANNER UNLESS
OTHERWISE N OTED.

Handling And Storage Precautions: TRAIN WELDER TO KEEP HIS HEAD OUT OF FUMES.
TRAIN WELDER NOT TO PERMIT ELEC LIVE PARTS/ELECTRODES TO
CONT SKIN,
CLTHG/GLOVES IF THEY ARE WET.

Other Precautions: INSULATE FROM WORK & GROUND. READ & UNDERSTAND MFR'S
INSTRUCTIONS & PREC LBL ON PROD. REQUEST MFR'S SFTY PUB E205. SEE ANSI
Z49.1, "SFTY IN WELDING & CUTTING" PUBLISHED BY AWS, 550 N.W. LEJEUNE RD,
MI AMI FL 33126 & OSHA PUB 2206 (SUPP DATA)

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Fire and Explosion Hazard Information
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Extinguishing Media

: MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).

Fire Fighting Procedures: USE NIOSH APPROVED SCBA & FULL PROTECTIVE
EQUIPMENT (FP N).

Unusual Fire/Explosion Hazard: NON-FLAMMABLE: WELDING ARC AND SPARKS CAN IGNITE
COMBUSTIBLES AND FLAMMABLE PRODUCTS.

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Control Measures
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Respiratory Protection: USE NIOSH APPROVED RESPIRABLE FUME RESPIRATOR OR AIR
SUPPLIED RESPIRATOR WHEN WELDING I

N CONFINED SPACE OR GENERAL WORK AREA WHEN

LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation: USE ENOUGH VENT, LOCAL EXHAUST AT ARC OR BOTH TO KEEP FUMES &
GASES FROM WORKER'S BREATHING ZONE & THE GENERAL AREA.

Protective Gloves: WELDER'S GLOVES.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS &

Other Protective Equipment: ANSI APPRVD EYE WASH FOUNTAIN & DELUGE SHOWER (FP
N). ARM PROTECTORS, APRONS, HATS, SHOULDER PROT, DARK CLTHG.

Work Hygienic Practices:

NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health: EXPLAN OF CARCIN:ANTIC TO BE CARCIN. OTHER
PREC:(29CFR1910), U.S. GOVT PRINTING OFC, WASHINGTON, D.C. 20402 FOR MORE
INFO. KEEP EXPOS AS LOW AS POSS. INDOORS, USE LOC EXHST; OUTDOORS, NIOSH
APPRVD RES P MAY BE REQD. HAZ DECOMP PROD:PRIMARILY IRON OXIDE &
FLUORIDES; SECONDARILY COMPLEX OXIDES OF CALCIUM,

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Physical/Chemical Properties

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Appearance and Odor: NONE SPECIFIED BY MANUFACTURER.

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Reactivity Data

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Stability Indicator: YES

Stability Condition To Avoid: NONE SPECIFIED BY MANUFACTURER.

Materials To Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: WELDING FUMES & GASES CANNOT BE CLASSIFIED
SIMPLY. REAS EXPECTED FUME CONSTITUENTS OF THIS PROD WOULD INCL: (SUPP DATA)

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NOT RELEVANT

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Toxicological Information

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Ecological Information

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MSDS Transport Information

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Regulatory Information

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Other Information

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Transportation Information

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Responsible Party Cage: 36232

Trans ID NO: 95783

Product ID: CODE ARC 8018-B2 MR

MSDS Pre

pared Date: 04/15/1993
Review Date: 10/14/1997
MFN: 1
Multiple KIT Number: 0
Review IND: Y

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Detail DOT Information
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DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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Detail IMO Information
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IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT
REGULATED FOR THIS MODE OF TRANSPORTATION
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Detail IATA Information
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IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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Detail AFI Information
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AFI PSN Code: ZZZ
AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
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HAZCOM Label
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Product ID: CODE ARC 8018-B2 MR
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 IND: Y
Date Of Label Review: 07/14/1997
Status Code: C
Label Date: 07/14/1997
Origination Code: G
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word:

WARNING

Respiratory Protection IND: YES

Health Hazard: Moderate

Contact Hazard: Moderate

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: DECOMPOSITION PRODUCTS MAY BE HAZARDOUS.

ACUTE:DISCOMFORT, METAL FUME FEVER, DIZZINESS, NAUSEA OR DRYNESS OR IRRITATION OF NOSE, THROAT OR EYES. ABDOMINAL PAIN, DIARRHEA, MUSCULAR WEAKNESS, CONVULSION S, LOSS OF CONSCIOUSNESS, DEATH. CHRONIC:CANCER HAZARD. CONTAINS SILICA, CRYSTALLINE-QUARTZ, WHICH IS LISTED AS AN ANIMAL LUNG CARCINO

GEN (FP N). SIDEROSIS, PULMONARY FUNCTION EFFECTS, CENTRAL NERVOUS SYSTEM EFFECTS, BRONCHITIS, LUNG FIBROSIS, CALCIFICATION OF BONE AND LIGAMENTSOF RIBS, PELVIS AND SPINAL COLUMN. SKIN RASH. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

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