LINCOLN ELECTRIC CO -- CODE ARC 8018-B2 MR

MSDS Safety Information

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

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

Ingre dients

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 (M FR)

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 TD

UST

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 CA

RBONATE; (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

OSHA 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 PRODS MAY INCL CARBON MONOXIDE & Samp;

Name: ING 14:CARBON DIOXIDE. OZONE & Samp; 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 & GOGGS.

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

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 & DONE & SAMP; CALCIFICATION OF LIGAMENTS OF RIBS, PELVIS & DONE & DON

Name: ING 20:SKIN RASH. CHROMIUM IS ON IARC & amp; NTP LISTS AS POSI

NG A CARCIN

RISK TO HUMANS (MFR). ARC RAYS CAN INJURE

Name: ING 21:EYES & BURN SKIN. ELECTRIC SHOCK CAN KILL.

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: FUMES & 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 & amp;

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 & amp;

DEATH. CHRONIC:OVEREXP TO WELDING FUMES CAN LEAD TO SIDEROSIS (IRON DEPOSITS IN LUNG) & DEPOSITS IN LUNG) & DEPOSITS IN LUNG) & DEPOSITS IN IMPAIRED SPEEC H & DEED MOVEMENT. BRONCH & DEED SIDEROSIS 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 & ELEC TREATMENT. IN ALL CASES, CALL MD.

Handling and Disposal

Spill Release Procedures: NONE SPECIFIED BY MANUFACT

URER.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DISPOSAL MUST BE I/A/W FEDERAL, STATE & DISPOSAL 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: IN

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

Fire and Explosion Hazard Information

Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).

Fire Fighting Proc

edures: USE NIOSH APPROVED SCBA & amp; FULL PROTECTIVE

EQUIPMENT (FP N).

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

Control Measures

Respiratory Protection: USE NIOSH APPROVED RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACE OR GENERAL WORK AREA WHEN LOCAL EXHAUST OR VE

NTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

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

Protective Gloves: WELDER'S GLOVES.

Eve 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 & amp; FLUORIDES; SECONDARILY COMPLEX OXIDES OF CALCIUM, _____ Physical/Chemical Properties _____ Appearance and Odor: NONE SPECIFIED BY M ANUFACTURER. ______ Reactivity Data ______ 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 Poly merization: NOT RELEVANT _____ Toxicological Information ______ ______ **Ecological Information MSDS** Transport Information Regu latory Information ______ ______ Other Information ______ ______ Transportation Information ______

Responsible Party Cage: 36232

Trans ID NO: 95783

Product ID: CODE ARC 8018-B2 MR MSDS Prepared Date: 04/15/1993

Review Date: 10/14/1997

MFN: 1 Multiple K IT Number: 0 Review IND: Y

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: 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 CARCINOGEN (FP N). SIDEROSIS, PULMONARY FUNCTION EFFECTS, CENTRAL NERVO US

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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of this information to their

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