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## **AIRCO CODE ARC 8018-B2L MR**

### **MSDS Number**

CGQPW

### **National Stock Number**

3439-00-967-2725

### **Product Name**

AIRCO CODE ARC 8018-B2L MR

### **Manufacturer**

LINCOLN ELECTRIC CO

### **Product Identification**

Product ID: AIRCO CODE ARC 8018-B2L MR

MSDS Date: 02/05/1996

FSC: 3439

NIIN: 00-967-2725

MSDS Number: CGQPW

### **Responsible Party**

LINCOLN ELECTRIC CO

22801 ST CLAIR AVE

CLEVELAND , OH 41117-1199

US

Emergency Phone: 216-482-8100

Info Phone: 216-482-8100

Cage: 1G312

### **Contractor**

LINCOLN ELECTRIC CO

UNKNOW

FAIRFAX, VA 22031

US

703-573-9225

Cage: 1G312

### **Ingredients**

IRON

CAS: 7439-89-6

RTECS: NO4565500

Fraction By Weight: 10%

OSHA PEL10 MG/M3 (FE)

ACGIH TLV: 5 MG/M3 FUME (FE)

CALCIUM CARBONATE; (LIMESTONE AND/OR CALCIUM CARBONATE)

CAS: 1317-65-3

RTECS: EV9580000

Fraction By Weight: 10%

OSHA PEL15 MG/M3 TDUST



ACGIH TLV: 10 MG/M3 TDUST

CALCIUM FLUORIDE; (FLUORIDES (AS F))

CAS: 7789-75-5

RTECS: EW1760000

Fraction By Weight:

OSHA PEL2.5 MG/M3 (MFR)

ACGIH TLV: 2.5 MG/M3 (MFR)

SODIUM SILICATE; (SILICATES AND OTHER BINDERS)

CAS: 1344-09-8

Fraction By Weight:

OSHA PEL10 MG/M3 (MFR)

ACGIH TLV: 10 MG/M3 (MFR)

CLAY (KAOLIN); (MINERAL SILICATES)

CAS: 1332-58-7

RTECS: GF1670500

Fraction By Weight:

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 2 MG/M3 TDUST

TITANIUM OXIDE; (TITANIUM DIOXIDE)

CAS: 13463-67-7

RTECS: XR2275000

Fraction By Weight:

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST

SILICON; (SILICON AND/OR SILICON ALLOYS AND COMPOUNDS)

CAS: 7440-21-3

RTECS: VW0400000

Fraction By Weight: 1%

OSHA PEL15 MG/M3 TDUST

ACGIH TLV: 10 MG/M3 TDUST

CHROMIUM; (CHROMIUM AND CHROMIUM ALLOYS OR COMPOUNDS (AS

CAS: 7440-47-3

RTECS: GB4200000

Fraction By Weight: 1%

OSHA PEL1 MG/M3



ACGIH TLV: 0.5 MG/M3  
EPA Report Quantity: 1 LB  
DOT Report Quantity: 1 LB

MANGANESE; (MANGANESE AND/OR MANGANESE ALLOYS AND

CAS: 7439-96-5

RTECS: OO9275000

Fraction By Weight: 1%

OSHA PEL5 MG/M3 DUST, C

ACGIH TLV: 5 MG/M3 DUST

STRONTIUM CARBONATE; (STRONTIUM COMPOUNDS (AS SR))

CAS: 1633-05-2

Fraction By Weight: 0.5%

OSHA PEL10 MG/M3 (MFR)

ACGIH TLV: 10 MG/M3 (MFR)

MOLYBDENUM; (MOLYBDENUM ALLOYS (AS MO))

CAS: 7439-98-7

RTECS: QA4680000

Fraction By Weight:

OSHA PEL10 PPM

ACGIH TLV: 10 PPM

SILICA, CRYSTALLINE - QUARTZ; (QUARTZ)

CAS: 14808-60-7

RTECS: VV7330000

Fraction By Weight:

OSHA PELN/K

ACGIH TLV: 0.1 MG/M3 RDUST

IRON; (CARBON STEEL CORE WIRE)

CAS: 7439-89-6

RTECS: NO4565500

Fraction By Weight: 55%

OSHA PEL10 MG/M3 (MFR)

ACGIH TLV: 10 MG/M3 (MFR)

MAY INCLUDE ARM PROTECTORS, APRONS, HATS,

RTECS: 9999999ZZ

WELDED, PROCESS, PROC & ELECTRODES USED.



RTECS: 9999999ZZ

GEN ARE DIFFERENT IN PERCENT & FORM FROM INGS

RTECS: 9999999ZZ

FROM VOLATILIZATION, RXN/OXIDATION OF MATLS SHOWN,

RTECS: 9999999ZZ

REASONABLY EXPECTED FUME CONSTITUENTS OF PROD WOULD

RTECS: 9999999ZZ

COMPLEX OXIDES OF ALUMINUM, CHROMIUM, MANGANESE,

RTECS: 9999999ZZ

GASEOUS RXN PRODS MAY INCL CARBON MONOXIDE & CARBON

RTECS: 9999999ZZ

RADIATION FROM ARC. FOR COMPLETE INFO CONTACT NEHC

RTECS: 9999999ZZ

BEEN REPORTED. RPTD EXPOS TO FLUORIDES MAY

RTECS: 9999999ZZ

OF LIGAMENTS OF RIBS, PELVIS & SPINAL COLUMN. MAY

RTECS: 9999999ZZ

LISTS AS POSING CARCIN RISK TO HUMANS. ARC RAYS CAN

RTECS: 9999999ZZ

REPORTED. ELECTRIC SHOCK CAN KILL.

RTECS: 9999999ZZ

## Hazards

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:ELEC ARC WELDING MAY CREATE ONE/MORE OF FOLLOWING HLTH HAZ: FUMES & GASES CAN BE DANGEROUS TO YOUR HLTH.

ACUTE: OVEREXP TO WELDING FUMES MAY RSLT IN DISCOMFORT SUCH AS METAL FUME FEVER, DIZZ, NAUS/DRY NESS OR IRRIT OF NOSE, THROAT/EYES. EXPOS TO EXTREMELY HIGH LEVS OF FLUORIDES CAN CAUSE ABDOM PAIN, (EFTS OF OVEREXP)

Explanation of Carcinogenicity:CRYSTALLINE SILICA-QUARTZ: IARC, SUPP, VOL 68, 1997: GRP 1. NTP 7TH ANNUAL RPT ON CARCINS 1994: ANTIC TO BE CARCIN.

Effects of Overexposure:HLTH HAZ: DIARR, MUSCULAR WEAK, & CONVULS. IN



EXTREME CASES IT CAN CAUSE LOSS OF CONSCIOUSNESS & DEATH. CHRONIC: OVEREXP TO WELDING FUMES CAN LEAD TO SIDEROSIS (IRON DEPOSITS IN LUNG) & MAY EFT PULM F UNC. MANGANESE OVEREXP CAN AFFECT CNS, RSLTG IN IMPAIRED SPEECH & MOVEMENT. BRONCH & SOME LUNG FIBROSIS HAVE (ING 22)

Medical Cond Aggravated by Exposure:MAY AGGRAVATE PRE-EXISTING RESPIRATORY PROBLEMS (E.G. ASTHMA, EMPHYSEMA).

## First Aid

First Aid:IN CASE OF ELECTRIC SHOCK, TURN OFF POWER & FOLLOW RECOM TREATMENT. CALL FOR MEDICAL AID. INGEST: CALL MD IMMEDIATELY . INHAL: IF BRTHG IS DFCLT, GIVE OXYGEN. IF NOT BRTHG EMPLOY CPR (CARDIOPULM ONARY RESUSCITATION) TECHNIQUES. EYES: IMMEDIATELY FLUSH W/POTABLE WATER FOR A MINIMUM OF 15 MINUTES, SEEK ASSISTANCE FROM MD . SKIN: FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD .

## Fire Fighting

Flash Point:NON-FLAMMABLE

Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE .

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

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

## Accidental Release

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

## Handling

Handling and Storage Precautions:TRAIN WELDER NOT TO PERMIT ELECTRICALLY LIVE PARTS OR ELECTRODES TO CONT SKIN/CLTHG OR GLOVES IF THEY ARE WET. INSULATE FROM WORK AND GROUND.

Other Precautions:READ & UNDERSTAND MFR'S INSTRUCTIONS & PREC LBL ON PROD. REQUEST LINCOLN SAFETY PUBLICATION E205. SEE AMERICAN NATIONAL STD Z49.1 "SAFETY IN WELDING & CUTTING" PUBLISHED BY AMERICAN WELDING SOCIETY, 5 50 N.W. LEJEUNE ROAD, MIAMI, FL (SUPDAT)

## Exposure Controls

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 VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:USE ENOUGH VENT. LOC EXHST AT ARC/BOTH TO KEEP FUMES & GASES FROM WOKER'S BRTHG ZONE & GEN AREA. TRAIN WELDER TO(SUPDAT)

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGLES .

Other Protective Equipment:ANSI APPROVED EYE WASH & DELUGE SHOWER . WEAR HAND, HEAD, & BODY PROT WHICH HELP TO PVNT INJ FROM RADIA, (SUPDAT)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

OTHER PREC: 33126 & OSHA PUBLICATION 2208 (29CFR1910). U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402 FOR MORE DETAILS ON MANY OF FOLLOWING. VENT: KEEP HIS HEAD OUT OF FUMES. KEEP EXPOS AS LO W AS POSS. OTHER PROT EQUIP: SPARKS & ELEC SHOCK. SEE Z49.1. AT MIN, THIS INCLS WELDER'S GLOVES & PROT FCSHLD, &(ING 14)

## Chemical Properties

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

## Stability

Stability Indicator/Materials to Avoid:YES  
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:WELDING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. COMPOSITION & QTY OF BOTH ARE DEPENDENT UPON



METAL BEING (ING 15)

## **Disposal**

Waste Disposal Methods: DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER, OR LINER AS ORDINARY WASTE IN AN ENVIRONMENTALLY ACCEPTABLE MANNER ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS UNLESS OTHERWISE NOTED.

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