

LINCOLN ELECTRIC CO -- LINCOLNWELD LA-100, ALL SIZES -- 3439-01-015-6834

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

Product ID:LINCOLNWELD LA-100, ALL SIZES

MSDS Date:10/15/1997

FSC:3439

NIIN:01-015-6834

Status Code:A

MSDS Number: CKPKV

=== Responsible Party ===

Company Name:LINCOLN ELECTRIC CO

Address:22801 ST CLAIR AVE

City:CLEVELAND

State:OH

ZIP:44117-1199

Country:US

Info Phone Num:216-481-8100

Emergen

cy Phone Num:216-481-8100

Resp. Party Other MSDS Num.:US-W40

CAGE:36232

=== Contractor Identification ===

Company Name:THE LINCOLN ELECTRIC CO

Address:22801 ST CLAIR AVE

Box:City:EUCLID

State:OH

ZIP:44117-1199

Country:US

Phone:216-481-8100

CAGE:36232

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

Ingred Name:LOW ALLOY STEEL WIRE

= Wt:100.

OSHA PEL:10 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name:MANGANESE

CAS:7439-96-5

RTECS #:OO9275000

&lt; Wt:5.

OSHA PEL:1.0 MG/M3

ACGIH TLV:0.2

MG/M3  
ACGIH STEL:3.0 MG/M3

Ingred Name:NICKEL  
CAS:7440-02-0  
RTECS #:QR5950000  
&lt; Wt:5.  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3

Ingred Name:MOLYBDENUM  
CAS:7439-98-7  
RTECS #:QA4680000  
&lt; Wt:.5  
OSHA PEL:10 MG/M3  
ACGIH TLV:10 MG/M3

Ingred Name:COPPER; (TOTAL COPPER INCLUDING PLATED COATING)  
CAS:7440-50-8  
RTECS #:GL5325000  
&lt; Wt:.5  
OSHA PEL:0.1 MG/M3  
ACGIH TLV:0.2 MG/M3  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:IRON  
CAS:7439-89-6  
RTECS #:NO4565500  
Fraction by Wt: BALANCE  
OSHA PEL:10  
MG/M3  
ACGIH TLV:10 MG/M3

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:ELECTRIC ARC WELDING MAY CREATE ONE OR  
MORE OF FOLLOWING HEALTH HAZARDS: FUMES AND GASES CAN BE DANGEROUS  
TO YOUR HEALTH. ACUTE: OVEREXPOSURE TO WELDING FUMES MAY RESULT IN  
DISCOMFORT SUCH AS METAL FU ME FEVER, DIZZINESS, NAUSEA, DRYNESS  
OR

IRRITATION OF NOSE, THROAT, EYES. CHRONIC: FUMES CAN LEAD TO SIDEROSIS (IRON DEPOSITS IN LUNG) AND MAY AFFECT PULMONARY FUNCTION. MANGANESE CAN AFFECT CENTRAL NERVOUS SYSTEM, RESULTING IN IMPAIRED SPEECH AND MOVEMENT, BRONCHITIS AND SOME LUNG FIBROSIS HAVE BEEN REPORTED. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL. SKIN CANCER HAS BEEN REPORTED.

Explanation of Carcinogenicity: NICKEL AND ITS COMPOUNDS ARE ON THE IARC AND NTP LISTS AS POSING A CARCINOGENIC RISK TO HUMANS. WARNING!

THIS PRODUCT CONTAINS OR PRODUCES A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Effects of Overexposure: SKIN BURNS, METAL FUME FEVER, DIZZINESS, NAUSEA, DRYNESS AND/ OR IRRITATION OF NOSE, THROAT, OR EYES, SIDEROSIS, AFFECTED PULMONARY FUNCTION, CENTRAL NERVOUS SYSTEM EFFECTS, IMPAIRED SPEECH AND MOVEMENT, EYE INJURY, SKIN CANCER, ELECTROCUTION, DEATH.

Medical Condition Aggravated by Exposure: MAY AGGRAVATE PREEXISTING RESPIRATORY PROBLEMS (E.G., ASTHMA, EMPHYSEMA).

=====  
First Aid Measures  
=====

First Aid: CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS. INHALATION: IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, EMPLOY CPR (CARDIOPULMONARY RESUSCITATION) TECHNIQUES. IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER AND FOLLOW RECOMMENDED TREATMENT. IN ALL CASES CALL A PHYSICIAN.

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

Extinguishing Media: WELDING RODS ARE NON-FLAMMABLE. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: USE PROCEDURE APPROPRIATE FOR FIGHTING SURROUNDING FIRE.

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

=====  
Handling and Storage  
=====

Handling and Storage Precautions: READ MANUFACTURERS INSTRUCTIONS AND LABEL ON PRODUCT

DUCT. REQUEST LINCOLN SAFETY PUBLICATION E205. SEE AMERICAN NATIONAL STANDARD 249.1, "SAFETY IN WELDING AND CUTTING" PUBLISHED BY AMERICAN WELDING SOCIETY, 550 N.W. LEJEUNE RD, MIAMI, FL, 33126 AND OSHA PUBLICATION 2205 (29 CFR 1910).

Other Precautions: TRAIN THE WELDER TO KEEP HIS HEAD OUT OF THE FUMES AND NOT TO PERMIT ELECTRICALLY LIVE PARTS OR ELECTRODES TO CONTACT SKIN, CLOTHING OR GLOVES IF THEY ARE WET. INSULATE FROM WORK AND GROUND WORKPIECE.

===== Expos  
ure Controls/Personal Protection =====

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 VENTILATION, LOCAL EXHAUST AT ARC, OR BOTH TO KEEP FUMES AND GASES FROM WORKER'S BREATHING ZONE AND GENERAL AREA. KEEP EXPOSURE AS LOW AS POSSIBLE.

Protective Gloves: WEAR WELDER'S GLOVES AND ARM PROTECTORS.

Eye Protection: WEAR HELMET OR USE FACE SHIELD WITH FILTER LENS, SHADE NO. 12 OR DARKER.

Other Protective Equipment: WEAR HAND, HEAD, BODY PROTECTION TO PREVENT INJURY FROM RADIATION, SPARKS, ELECTRICAL SHOCK, INCLUDES WELDER'S GLOVES, FACE SHIELD, ARM AND SHOULDER PROTECTORS, APRONS, HATS, DARK SUBSTANTIAL CLOTHING.

Supplemental Safety and Health

IF WELDING REQUIRED IN DAMP AREA OR WITH WET CLOTHING, ON METAL STRUCTURES OR WHEN IN CRAMPED POSITIONS AS SITTING,

KNEELING, OR

LYING, IF THERE IS HIGH RISK OF ACCIDENTAL CONTACT WITH WORKPIECE, USE FOLLOWING EQUIPMENT: SEMIAUTOMATIC DC WELDER, DC MANUAL (STICK) WELDER, OR AC WELDER WITH REDUCED VOLTAGE CONTROL.

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

HCC:N1

Boiling Pt: B.P. Text: NP

Solubility in Water: NOT SOLUBLE

Appearance and Odor: METAL WIRE WELDING ELECTRODE.

===== Stability and Reactivity Data =====

Hazardous Decomposition Products:

WELDING FUMES AND GASES CANNOT BE CLASSIFIED SIMPLY. COMPOSITION AND QUANTITY OF BOTH ARE DEPENDENT UPON THE METAL BEING WELDED, THE PROCESS, THE PROCEDURES AND THE ELECTRODES USED.

===== Toxicological Information =====

Toxicological Information:MAXIMUM FUME EXPOSURE GUIDELINE FOR THIS PRODUCT (BASED ON MANGANESE CONTENT IS 1.5 MG/M3.

===== Ecological Information =====

Ecological:GASEOUS REACTION PRODUCTS MAY INCLUDE CARBON MONOXIDE AND CARBON DIOXIDE. OZONE AND NITROGEN OXIDES MAY BE FORMED BY RADIATION FROM WELDING ARC. DETERMINE COMPOSITION AND QUANTITY OF FUMES AND GASES TO WHICH WORKERS ARE EXPOSED BY TAKING AIR SAMPLE FROM INSIDE WELDER'S HELMET IF WORN OR IN WORKER'S BREATHING ZONE. IMPROVE VENTILATION IF EXPOSURES ARE NOT BELOW LIMITS.

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

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.

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

Transport Information:AS SHIPPED PRODUCT IS NOT HAZARDOUS. USE OF THIS PRODUCT IN WELDING OPERATIONS GENERATES THE HAZARDS. (HMIS)

===== Regulatory Information =====

Federal Regulatory Information:MANGANESE, NICKEL AND COPPER (INCLUDING PLATED COATING) INGREDIENTS CONTAINED IN THIS PRODUCT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTIONS 311, 312, AND 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1996 AND OF 40 CFR 370 AND 372.

State Regulatory Information:WARNING: THIS PRODUCT CONTAINS OR PRODUCES A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER (CALIFORNIA HEALTH AND SAFETY CODE SECTION 25249.E AT SEG 1).

===== Other Information =====

=====

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 this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.