

THE LINCOLN ELECTRIC COMPANY -- JETWELD LH-70 -- 3439-00-262-2655

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

Product ID:JETWELD LH-70

MSDS Date:03/22/1999

FSC:3439

NIIN:00-262-2655

Status Code:A

MSDS Number: CLHLR

=== Responsible Party ===

Company Name:THE LINCOLN ELECTRIC COMPANY

Address:22801 ST. CLAIR AVENUE

City:CLEVELAND

State:OH

ZIP:44117-1199

Country:US

Info Phone Num:216-481-8100

Emergency Phone

Num:216-481-8100

Resp. Party Other MSDS Num.:MSDS NO.: US-M220

CAGE:UO322

=== Contractor Identification ===

Company Name:THE LINCOLN ELECTRIC COMPANY

Address:22801 ST. CLAIR AVENUE

Box:City:CLEVELAND

State:OH

ZIP:44117-1199

Country:US

Phone:216-481-8100

CAGE:UO322

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

Ingred Name:IRON + CARBON STEEL CORE WIRE

CAS:7439-89-6

RTECS #:NO4565500

= Wt:85.

Ingred Name:SILICATES AND OTHER BINDERS

CAS:1344-09-8

< Wt:5.

Ingred Name:MI

NERAL SILICATES
CAS:1332-58-7
RTECS #:GF1670500
< Wt:.5
OSHA PEL:15 MG/M3
ACGIH TLV:2 MG/M3

Ingred Name:MANGANESE AND/OR MANGANESE ALLYS AND COMPOUNDS (AS MN)
CAS:7439-96-5
RTECS #:OO9275000
= Wt:.5
OSHA PEL:C5 MG/M3
ACGIH TLV:5 MG/M3

Ingred Name:CELLULOSE AND OTHER CARBOHYDRATES
CAS:65996-61-4
= Wt:5.

Ingred Name:TITANIUM DIOXIDES (AS TI)
CAS:13463-67-7
RTECS #:XR2275000
< Wt:5.
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3

Ingred Name:MAGNESITE
CAS:1309-48-4
RTECS #:OM3850000
= Wt:1.
OSHA PEL
:15 MG/M3
ACGIH TLV:10 MG/M3

Ingred Name:ALKALI CARBONATES
CAS:584-08-7
RTECS #:TS7750000
< Wt:.5

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

LD50 LC50 Mixture:NONE PROVIDED BY MFR
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:FUMES AND GASES CAN BE DANGEROUS TO
YOUR HEALTH. COMMON ENTRY IS BY INHALATION. ACUTE: OVEREXPOSURE TO
WELDING FUMES MAY RESULT IN DISCOM

FORT SUCH AS METAL FUME FEVER,
DIZZINESS, NAUSEA, OR DRYNESS OR IRRITATION OF NOSE, THROAT, OR
EYES. CHRONIC: OVEREXPOSURE TO WELDING FUMES CAN LEAD TO SIDEROSIS
& MAY AFFECT PULMONARY FUNCTION. MANGANESE OVEREXPOSURE CAN AFFECT
THE CENTRAL NERVOUS SYSTEM, RESULT IN IMPAIRED SPEECH & MOVEMENT.
BRONCHITIS & SOME LUNG FIBROSIS HAVE BEEN REPORTED.

Explanation of Carcinogenicity:NONE PROVIDED BY MFR

Effects of Overexposure:FUMES AND GASES CAN BE DANGEROUS TO YOUR
HEALTH. C

COMMON ENTRY IS BY INHALATION. ACUTE: OVEREXPOSURE TO
WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS METAL FUME FEVER,
DIZZINESS, NAUSEA, OR DRYNESS OR IRRITATION OF NOSE, THROAT, OR
EYES. CHRONIC: OVEREXPOSURE TO WELDING FUMES CAN LEAD TO SIDEROSIS
& MAY AFFECT PULMONARY FUNCTION. MANGANESE OVEREXPOSURE CAN AFFECT
THE CENTRAL NERVOUS SYSTEM, RESULT IN IMPAIRED SPEECH & MOVEMENT.
BRONCHITIS & SOME LUNG FIBROSIS HAVE BEEN REPORTED.

Medical Cond Aggravated by Exposure:MAY

AGGRAVATE PRE-EXISTING
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. 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 =====

Flash Point:NON-FLAMMABLE
Autoignition Temp:Autoignition Temp Text:NONE P
Lower Limits:NONE PROVIDE
Upper Limits:NONE PROVIDE
Extinguishing Media:NONE PROVIDED BY MFR
Fire Fighting Procedures:NONE PROVIDED BY MFR
Unusual Fire/Explosion Hazard:WELDING ARC AND SPARKS CAN IGNITE
COMBUSTIBLES AND FLAMMABLE PRODUCTS. SEE Z49.1

=====
===== Accidental Release Measures =====

Spill Release Procedures:NONE PROVIDED BY MFR
Neu

tralizing Agent:NONE PROVIDED BY MFR

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

Handling and Storage Precautions:NONE PROVIDED BY MFR

Other Precautions:NONE PROVIDED BY MFR

=====
===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED
RESPIRATOR WHEN NEEDED.

Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUSE AT THE ARC, OR BOTH
TO KEEP THE FUMES AND GASES FROM THE WORKER'S BREATHING ZO

NE AND

THE GENERAL AREA.

Protective Gloves:WELDER'S GLOVES

Eye Protection:WEAR HELMET OR USE FACE SHIELD WITH FILTER LENS SHADE
NUMBER 12.

Other Protective Equipment:WEAR HAND, HEAD AND BODY PROTECTION WHICH
HELP PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK.
SEE Z49.1. AT A MINIMUM THIS INCLUDES WELDERS GLOVES AND A
PROTECTIVE FACE SHIELD.

Work Hygienic Practices:NONE PROVIDED BY MFR

Supplemental Safety and Health

TRAIN THE WORKER TO KEEP HIS HEAD OUT OF THE FUM

ES. KEEP EXPOSURE AS

LOW AS POSSIBLE.

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

HCC:N1

Boiling Pt:B.P. Text:NONE PROVIDED BY MFR

Melt/Freeze Pt:M.P/F.P Text:NONE PROVIDED BY MFR

Decomp Temp:Decomp Text:NONE PROVIDED BY MFR

Vapor Pres:NONE PROVIDED BY MFR

Vapor Density:NONE PROVI

Spec Gravity:NONE PROVIDED BY MFR

pH:NONE PROVIDED

Viscosity:NONE PROVIDED BY MFR

Evaporation Rate & Reference:NONE PROVIDED BY MFR

Solubility in Water:NONE PROVIDED BY MFR

Appearance

and Odor:NONE PROVIDED BY MFR
Percent Volatiles by Volume:NONE PROVIDE
Corrosion Rate:NONE PROVIDED BY MFR

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

Hazardous Decomposition Products:PRIMARILY IRON OXIDE; SECONDARILY
COMLEX OXIDES OF MANGANESE, POTASSIUM, SILICON & SODIUM.

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

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

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

SARA Title III Information:CONTAINS MANGANESE AND/OR MANGANESE ALLOYS &
COMPOUNDS (AS MN) AND TITANIUM DIOXIDES (AS TI) WHICH ARE SUBJECT
TO THE REPORTING REQUIREMENTS OF SECTIONS 311, 312, & 313 OF THE
EMERGENCY PLANNING & CO MMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40
CFR 370 & 372.

Disclaimer (provide
d 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.