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## INWELD MFG CORP -- 316L-16, STAINLESS STEEL WELDING ELECTRODES -- 3439-01-095-3699

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

Product ID:316L-16, STAINLESS STEEL WELDING ELECTRODES

MSDS Date:12/01/1999

FSC:3439

NIIN:01-095-3699 Status Code:A

MSDS Number: CLNVH === Responsible Party ===

Company Name: INWELD MFG CORP

Address:3962 PROTLAND ST

Box:40

City:COPLAY

State:PA

ZIP:18037-0040

Country:US

Info Phone Nu

m:610-261-1900

Emergency Phone Num:800-346-5368

CAGE:66376

=== Contractor Identification === Company Name:BLACK AND CO Address:5351 W MINNESOTA ST

Box:UNKNOW
City:INDIANAPOLIS

State:IN ZIP:46241 Country:US

Phone:317-243-8676

Contract Num: SP0490-00-D-4063

CAGE:00WU8

Company Name: INWELD MFG CORP

Address:3962 PORTLAND ST

Box:40

City:COPLAY

State:PA

ZIP:18037-0040 Country:US

Phone:610-261-1900

CAGE:66376

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

Ingred Name: IRON

CAS:7439

-89-6

RTECS #:NO4565500

Minumum % Wt:30.

Maxumum % Wt:50. OSHA PEL:5 MG/M3

ACGIH TLV:10 MG/M3 (AS FE2O3)

Ingred Name:CHROMIUM

CAS:7440-47-3

RTECS #:GB4200000

Minumum % Wt:15.

Maxumum % Wt:25.

OSHA PEL:0.05 MG/M3

ACGIH TLV:0.05 MG/M3 (CHROMIUM

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name:NICKEL

CAS:7440-02-0

RTECS #:QR5950000

Minumum % Wt:6.

Maxumum % Wt:20.

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:MANGANESE

CAS:7439-96-5

RTECS #: OO9275000

Minumum

% Wt:1.

Maxumum % Wt:5.

OSHA PEL:5 MG/M3

ACGIH TLV:1 MG/M3

Ingred Name: SILICON

CAS:7440-21-3

RTECS #:VW0400000

Minumum % Wt:.1

Maxumum % Wt:1.

OSHA PEL:5 MG/M3 (AS SIO2)

ACGIH TLV:3 MG/M3 (AS SIO3)

Ingred Name: MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000

Minumum % Wt:0.

Maxumum % Wt:4.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name:COLUMBIUM

CAS:7440-03-1

RTECS #:QT9900000

Minumum % Wt:0.

Maxumum % Wt:3.

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3

XR2275000 Minumum % Wt:1. Maxumum % Wt:15. OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:DIPOTASSIUM TITANATE

CAS:12030-97-6 Minumum % Wt:0. Maxumum % Wt:3.

OSHA PEL:NOT REGISTERED

ACGIH TLV:10 MG/M3

Ingred Name: CALCIUM CARBONATE

CAS:1317-65-3 RTECS #:EV9580000 Minumum % Wt:5. Maxumum % Wt:15.

OSHA PEL:5 MG/M3 (AS CAO)

ACGIH TLV:10 MG/M3

Ingred Name: CALCIUM FLUORIDE

CAS:14542-23-5 Minumum % Wt:2. Maxumum % Wt:10. OSHA PEL:2 5 MG/I

OSHA PEL:2.5 MG/M3 (AS F) ACGIH TLV:2.5 MG/M3 (AS F)

Ingred Name: CRYOLITE

CA

S:15096-52-3

RTECS #:WA9625000

Minumum % Wt:0.

Maxumum % Wt:5.

OSHA PEL:2.5 MG/M3 (AS F) ACGIH TLV:2.5 MG/M3 (AS F)

Ingred Name:FELDSPAR

CAS:68476-25-5 Minumum % Wt:0. Maxumum % Wt:3.

OSHA PEL:NOT REGISTERED

ACGIH TLV:2 MG/M3

Ingred Name: CHROMIUM OXIDE

CAS:1308-38-9

RTECS #:GB6475000

Minumum % Wt:0.

Maxumum % Wt:.5

OSHA PEL:0.05 MG/M3

ACGIH TLV:0.05 MG/M3

Ingred Name: POTASSIUM SILICATE

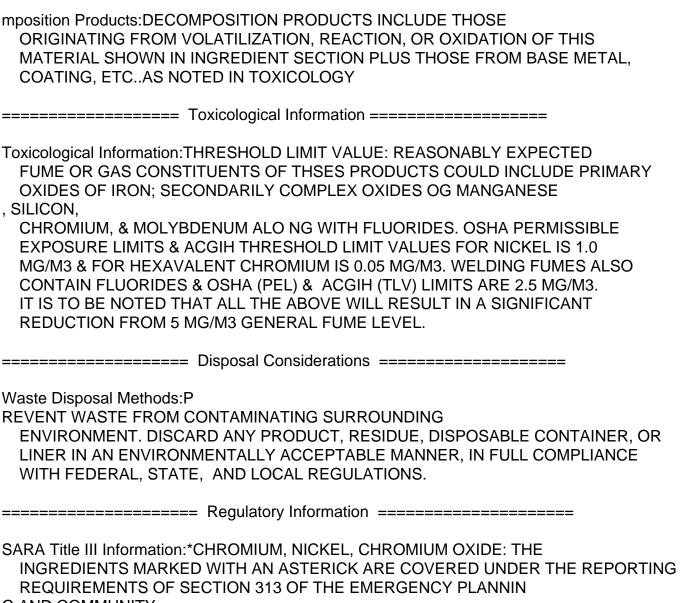
CAS:1312-76-1 Minumum % Wt:0. Maxumum % Wt:2.

**OSHA PEL:NOT REGISTERED** 

ACGIH TLV:5 MG/M3

SILICATE CAS:1344-09-8 Minumum % Wt:1. Maxumum % Wt:5. DSHA PEL:NOT REGISTERED ACGIH TLV:5 MG/M3
ngred Name:POTASSIUM HYDROXIDE CAS:1310-58-3 RTECS #:TT2100000 Minumum % Wt:0. Maxumum % Wt:.5 DSHA PEL:NOT REGISTERED ACGIH TLV:2 MG/M3 ACGIH STEL:C2 MG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS
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Health Hazards Acute and Chronic:SHORT TERM (ACUTE) OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS: DIZZINESS, NAUSEA,  AND DRYNESS OR IRRITATION OF THE NOSE, THROAT, OR EYES. LONG TERM (CHRONIC) OVEREXPSURE TO WELDING FUMES MAY LEAD TO SIDEROSIS (IRON DEPOSITS IN THE LUNG) AND IS BELIEVED BY SOME INVESTIGATORS TO AFFECT PULMONARY FUNCTION. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.  Explanation of Carcinogenicity:CHROMIUM, NICKEL AND CHROMIUM OXIDE: CARCINOGENICITY-YES.  Effects of Overexposure:FUMES AND GASES CAN BE DANGEROUS TO YOUR HEALTH.  Medical Cond  Aggravated by Exposure:AGGRAVATION OF PREEXISTING  RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.
First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.
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Jnusual Fire/Explosion Hazard:THESE PRODUCTS AS SHIPPED ARE NONHAZARDOUS, NONFLAMMABLE, NONEXPLOSIVE, AND NONREACTIVE. WELDING ARC

AND SPARKS CAN IGNITE COMBUSTIBLES AND FLAMMABLES. REFER TO AMERICAN NATIONAL STANDARD -49.1 FOR FI RE PREVENTION DURING THE USE OF WELDING PROCEDURES.
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Handling and Storage Precautions:READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THIS PRODUCT. SEE AMERICAN NATIONAL STANDARD Z-49.1, SAFETY IN WELDING AND CUTTING, PUBLISHED BY THE AMERICAN WELDING SOCIETY, P.O. BOX 35414 0, MIAMI,
FL 33135 AND OSHA PUBLICATION 2206 (29 C.R.F. 1910). U.S.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLEIS RESPIRATOR WHEN WELDING IN CONFINED SPACE OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV. Ventilation:USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH, TO KEEP THE FUMES AND GASES BELOW THE TLV'S IN THE WORKER'S BREATHING ZONE AND THE GENE
RAL AREA. Protective Gloves:WELDER'S GLOVES.
Eye Protection:WEAR HELMET OR USE FACE SHIELD WITH FILTER LENS.  Other Protective Equipment:WEAR HEAD, HAND, & BODY PROTECTION THAT HELP PREVENT INJURY FROM RADIATION, SPARKS & ELECTRICAL SHOCK. AT A MINIMUM, WELDER'S GLOVES & PROTECTIVE FACE SHIELD & ARM PROTECTOR & DARK SUBSTANTIAL CLOTHING
Work Hygienic Practices:TRAIN THE WELDER NOT TO TOUCH LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND. Supplemental Safety and Health
VENTILATION-TRAIN THE WELDER TO KEEP HIS HEAD OUT OF THE FUMES. EYE PROTECTION-AS ARULE OF THUMB, START WITH A SHADE THAT IS TOO DARK TO SEE THE WELD ZONE. THEN GO TO THE NEXT LIGHTER SHADE THAT GIV ES SUFFICIENT VIEW OF THE WELD ZONE. PROVIDE PROTECTIVE SCREENS & FLASH GOGGLES, IF NECESSARY, TO SHIELD OTHERS.
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HCC:N1
========== Stability and Reactivity Data ===========
Hazardous Deco



**G AND COMMUNITY** RIGHT TO KNOW ACT OF 1986 AND 40 CFR 372.

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

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