

INWELD MFG CORP -- 308L -- 3439-00-511-9704

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

Product ID:308L

MSDS Date:12/01/1989

FSC:3439

NIIN:00-511-9704

MSDS Number: BVZfZ

=== Responsible Party ===

Company Name:INWELD MFG CORP

Address:1471 JERSEY AVE

Box:6019

City:NEW BRUNSWICK

State:NJ

ZIP:08902

Country:US

Info Phone Num:201-545-3800

Emergency Phone Num:201-545-3800

CAGE:66376

=== Contractor Identification

===

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:CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000

Fraction by Wt: .03-.08%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3; 9394

Ingred Name:CHROMIUM (SARA III)(OXIDATION STATE IS +6)

CAS:7440-47-3

RTECS #:GB4200000

Fraction by Wt: 18-22%

Other REC Limi

ts:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9394
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 9-12%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9394

Ingred Name:MOLYBDENUM (INSOLUBLE COMPOUNDS)
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: .73-3%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9394

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:O
O9275000
Fraction by Wt: 1-2.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9394

Ingred Name:SILICON
CAS:7440-21-3
RTECS #:VW0400000
Fraction by Wt: .3-1%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: .75%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2 MG/M3 FUME; 9394
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000

LBS

Ingred Name:IRON

CAS:6596-57-0

Fraction by Wt: BALANCE

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:TLV FOR CHROMIUM VI IS 0.05MG/M3

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:SHORT TERM EXPOSURE TO WELDING FUMES,
GASES OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA,
FEVER, DRYNESS AND/OR IRRITATI

ON OF NOSE, THROAT AND EYES. SKIN

SENSITIVITY MAY ALSO BE NOTED. A CUTE EXPOSURE FROM SOME TOXIC
GASES MAYCAUSE PULMONARY EDEMA, ASPHYXIATION AND EXCESSIVE EXPOSURE
CAN BE FATAL.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM VI ARE CONSIDERED
POSSIBLE CARCINOGENS UNDER OSHA. RESPIRATORY CANCER FROM WELDING IS
UNCONFIRMED.

Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY RESULT IN
DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR
IRRITATION OF NOSE,

THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE

NOTED. WATERY EYES, HEADACHE, BREA THING DIFFICULTY, FREQUENT
COUGHING AND/OR CHEST PAINS MAY OCCURE FROM ACUTE EXPOSURE. TOXIC
GASES CAN BE FATAL.

Medical Cond Aggravated by Exposure:SOME WORKERS MAY BE AFFECTED BY A
PRE-EXISTING CONDITION OR OTHER OCCUPATIONAL ILLNESS BECAUSE OF THE
WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES.

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

First Aid:IN CASE OF ELECTRIC

AL SHOCK, TURN OFF POWER PRIOR TO REMOVAL

FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. REMOVE FROM

EXPOSURE AREA AND CALL FOR MEDICAL AID. ADMINISTER OXYGEN IF

BREATHING IS D IFFICULT. IF NOT BREATHING, BEGIN ARTIFICIAL

RESPIRATION. IF NO DETECTABLE PULSE, BEGIN EXTERNAL HEART MASSAGE.

EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

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

Flash Point:NONE

Extinguishing Media:USE WATER F

OG, CARBON DIOXIDE, FOAM, OR DRY
CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED
CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE
HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES
AND PLACE IN SUITA
BLE DOT APPROVED CONTAINERS AND DISPOSE OF IN
FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID
INHALATION AND SKIN EXPOSU RE.

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

Handling and Storage Precautions:WEAR GLOVES AND FLAME RETARDANT
CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO
RADIATION WHEN HOT CUTTING OR WELDING.

Other Precautions:PROVIDE PROTECTIVE SCREENS TO SHIELD OTHERS. WHEN
ELECTRODES AND FLUXES ARE CONS
UMED, THE FUME AND GAS DECOMPOSITION
PRODUCTS GENERATED ARE DIFFERENT IN FORM FROM THE INGREDIENTS
LISTED. NEW COMPOUNDS NOT IN THE ELECTRODES MAY FORM.

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

Respiratory Protection:USE WELD FUME RESPIRATOR OR AIR SUPPLIED
RESPIRATOR WHEN CUTTING, GRINDING OR WELDING IN A CONFINED SPACE OR
WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE
BELOW RECOMMENDED LIMITS. USE ONLY NIOSH APPROVED RESPIRA
TORS.

Ventilation:USE ENOUGH VENTILATION WHEN CUTTING, GRINDING OR WELDING TO
KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE

Protective Gloves:WELDERS LEATHER GLOVES

Eye Protection:OSHA APPROVED GOGGLES/FACE SHIELD W/LENS

Other Protective Equipment:FLAME RETARDANT CLOTHING WHEN CUTTING,
GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT
CUTTING OR WELDING.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING.
LAUNDER CONTAMINATIED CLOTHING BEF

ORE REUSE.

Supplemental Safety and Health

WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THE PRESENCE OF CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.

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

HCC:N1

Solubility in Water:INSOLBLE

Appearance and Odor

:WELDING ROD;9"X0.094"OD

Percent Volatiles by Volume:NIL

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:WELDING AND CUTTING OPERATION MAY INCLUDE OXIDES OF THE METALS, CHROMATES, FLUORIDES, COMPLEX METALLICS, AND OZONE.

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

=====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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.