

INWELD MFG CORP -- COBALT SERIES -- 3439-00-246-0549

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

Product ID:COBALT SERIES

MSDS Date:02/06/1990

FSC:3439

NIIN:00-246-0549

MSDS Number: BJXWX

=== 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

=== Contrac

tor 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:MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000

Fraction by Wt: 0-2%

OSHA PEL:(C) 5 MG/M3 DUST

ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:SILICON

CAS:7440-21-3

RTECS #:VW0400000

Fraction by Wt: 0-4%

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 929

Ingred Name:CHROMIUM (SARA III)  
CAS:7440-47-3  
RTECS #:GB4200000  
Fraction by Wt: 6-32%  
OSHA PEL:1 MG/M3  
ACGIH TLV:0.5 MG/M3; 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:NICKEL (SARA III)  
CAS:7440-02-0  
RTECS #:QR5950000  
Fraction by Wt: 0-22%  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9192

Ingred Name:TUNGSTEN  
CAS:7440-33-7  
RTECS #:YO7175000  
Fraction by Wt: 0-20%  
OSHA PEL:5 MG/M3/ 10 STEL  
ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred Name:MOLYBDENUM  
CAS:7439-98-7  
RTECS #:QA4680000  
Fraction by Wt: 0  
-29%  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3; 9293

Ingred Name:IRON  
CAS:7439-89-6  
RTECS #:NO4565500  
Fraction by Wt: 0-3%  
Other REC Limits:NONE ESTABLISHED

Ingred Name:COBALT (SARA III)  
CAS:7440-48-4  
RTECS #:GF8750000  
Fraction by Wt: 0-65%  
OSHA PEL:0.1 MG/M3;AS CO  
ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:TITANIUM DIOXIDE  
CAS:13463-67-7  
RTECS #:XR2275000  
Fraction by Wt: 6-12%  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9293

Ingred Name:CALCIUM CARBONATE (MARBLE) (LIMESTONE)  
CAS:131

7-65-3  
RTECS #:EV9580000  
Fraction by Wt: 4-6%  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3 TDUST; 9192

Ingred Name:CALCIUM FLUORIDE  
CAS:7789-75-5  
RTECS #:EW1760000  
Fraction by Wt: 2-3%  
OSHA PEL:2.5 MG(F)/CUM,8H TWA  
ACGIH TLV:2.5 MG(F)/CUM

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:SHORT TERM EXPOSURE TO WELDING FUMES,  
GAS  
ES OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA,  
FEVER, DRYNESS AND/OR IRRITATION 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 ARE CONSIDERED  
POSSIBLE CARCINOGENS UNDER NTP AND IARC.

Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY RESULT IN  
DISCOMFORT SUCH AS DIZZINESS, NAU  
SEA, 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:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED  
BY THE AMERICAN RED CROSS.

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

Flash Point:NONE  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS.  
Unusual Fire/Explosion Hazard:NONE STATED.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES  
AND PLACE IN SUITABLE DOT APPROVED

CONTAINERS AND DISPOSE OF IN

FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID  
INHALATION AND SKIN EXPOSURE.

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

Handling and Storage Precautions:READ & UNDERSTAND THE MANUFACTURER'S  
INSTRUCTIONS & THE PRECAUTIONARY LABEL ON THE PRODUCT. SEE AMERICAN  
NATIONAL STANDARD Z49.1.

Other Precautions:NONE STATED.

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

Respiratory Protection:US

E 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 RESPIRATORS.

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.

Supplemental Safety and Health

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

HCC:N1

Solubility in Water:INSOLUBLE

Appearance and Odor:SOLID ROD.

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

Stability Indicator/Materials to Avoid:YES

NONE STATED.

Stability Condition to Avoid:NONE STATED.

Hazardous Decomposition

Products:WELDING AND CUTTING OPERATION MAY  
INCLUDE OXIDES OF THE METALS, CHROMATES, NITROGEN OXIDES, COMPLEX  
METALLICS, & OZONE.

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

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH FEDERAL, STATE &  
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 what  
soever,  
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.