

CHAMPION WELDING PRODUCTS INC. -- BARE WELDING WIRE, #308 -- 3439-00-528-9063

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

Product ID:BARE WELDING WIRE, #308
MSDS Date:10/01/1993
FSC:3439
NIIN:00-528-9063
MSDS Number: BTHMZ
=== Responsible Party ===
Company Name:CHAMPION WELDING PRODUCTS INC.
Address:7619 DETOUR AVENUE
City:CLEVELAND
State:OH
ZIP:44103
Country:US
Info Phone Num:216-431-8353
Emergency Phone
Num:216-431-8353
CAGE:5Z721
=== Contractor Identification ===
Company Name:CHAMPION WELDING PRODUCTS
Address:7619 DETOUR AVE/SHOREWAY INDUSTRIAL PK
Box:City:CLEVELAND
State:OH
ZIP:44103
Country:US
Phone:216-431-9353
CAGE:5Z721

=====
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)
CAS:74

40-47-3
RTECS #:GB4200000
Fraction by Wt: 18-22%
Other REC Limits: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
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: .75-3.0%
Other REC Limits:NONE RECOMMENDED

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO92750
00
Fraction by Wt: 1-2.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 5 MG/M3
ACGIH TLV:5 MG/M3, DUST; 9394

Ingred Name:SILICA, CRYSTALLINE - FUSED
CAS:60676-86-0
RTECS #:VV7328000
Fraction by Wt: .3-1.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 MG/M3 RDUST; Z-3
ACGIH TLV:0.1 MG/M3 RDUST;9394

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 0.75%
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 L

BS
DOT Rpt Qty:5000 LBS

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: BALANCE
Other REC Limits:NONE RECOMMENDED
OSHA PEL:5 MG/M3
ACGIH TLV:10 MG/M3 AS FE2O3

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

LD50 LC50 Mixture:UNCLASSIFIED WELDING FUMES=5MG/M3 PEL
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 MAY RESULT IN DISCOMFORT,
DIZZINESS, NAUSEA AND DRYNESS OR IRRITATION OF THE THROAT. LONG TERM EXPOSURE MAY CONTRIBUTE TO PULMONARY IRRITATION OR PNEUMOCONIOSIS. IRON EXPOSURE MAY CAUSE SIDEROSIS. NICKEL AND CHROMIUM SHOULD BE CONSIDERED POSSIBLE CARCINOGENS.
Explanation of Carcinogenicity:NICKEL, COBALT-CHROMIUM ALLOYS, AND CHROMIUM HAVE BEEN IDENTIFIED BY IARC AND/OR NTP AS POTENTIAL CANCER CAUSING AGENTS.
Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY CAUSE METAL FUME FEVER WITH SYMPTOMS OF CHILLS, FEVER, NAUSEA, COUGH, DRY THROAT, WEAKNESS, MUSCLE ACHES, AND A SWEET OR METALLIC TASTE IN THE MOUTH. PROLONGED OR REPEATED EXPOSURE MAY CAUSE DIFFICULTY IN WALKING, WEAKNESS OR CRAMPS IN THE LEGS, HOARSENESS, MEMORY LOSS, SKIN SENSITIZATION.
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH IMPAIRED PULMONARY FUNCTION OR ILLNESS MAY HAVE SYMPTOMS EXACERBATED BY IRRITANTS CONTAINED IN WELDING FUMES.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. CONSULT A PHYSICIAN. EYE: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. INGESTION: WHILE INGESTION OF LARGE ENOUGH QUANTITIES TO CAUSE HEALTH EFFECTS IS UNLIKELY, CONSULT A PHYSICIAN IF IT OCCURS.

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

Flash Point:NONFLAMMABLE
Lower Limits:NOT GIVEN
Upper Limits:NOT GIVEN
Extinguishing M

edia:NONFLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING
FIRE.

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:IF MATERIAL IS REDUCED TO POWDER FORM,
CAUTION MUST BE USED TO PREVENT FIRE OR EXPLOSION.

===== 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: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
ELECTRO
DES AND FLUXES ARE CONSUMED, 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:WEAR NIOSH APPROVED RESPIRATORS FOR PROTECTION
AGAINST AIRBORNE DUST OR FUMES. RESPIRATORS SHOULD BE USED IN
ACCORDANCE WITH 29CFR 1910.134.

Ventilation:USE LOCAL AND GENERAL VENTILATION TO KEEP AIRBORNE
CONCENTRATIONS OF DUST OR FUMES BELOW THE TLV DURING USE.

Protective Gloves:WELDERS LEATHER GLOVES

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

Other Protective Equipment:BARRIER CREAMS MAY BE NECESSARY TO PREVENT
SKIN SENSITIZATION AND DERMATITIS.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING.
LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

THIS PRODUCT IS NONHAZARDOUS AS SHIPPED/STORED. HAZARD OCCURS WHEN
PRODUCT IS USED IN WELDING

G. 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.

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

HCC:N1

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:NIL

Vapor Density:NIL

Spec Gravity:NOT GIVEN

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:NEGLIGIBLE

A

Appearance and Odor:SOLID WIRE OR ROD, GREY TO SILVER IN COLOR, NO ODOR

Percent Volatiles by Volume:NIL

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

Stability Indicator/Materials to Avoid:YES

MINERAL ACIDS, 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:RECYCLE OR 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 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.