

ARCOS ALLOYS DIV HOSKINS MFG CO -- BARE-WIRE FILLER METALS, 316 -- 3439-00-201-9128

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

Product ID:BARE-WIRE FILLER METALS, 316

MSDS Date:05/01/1994

FSC:3439

NIIN:00-201-9128

MSDS Number: CBQFM

=== Responsible Party ===

Company Name:ARCOS ALLOYS DIV HOSKINS MFG CO

Address:1 ARCOS DR

City:MT CARMEL

State:PA

ZIP:17851

Country:US

Info Phone Num:717-339-5200

Emergency Ph

one Num:800-424-9300(CHEMTREC)

CAGE:03805

=== Contractor Identification ===

Company Name:ARCOS ALLOYS DIV OF HOSKINS MFG CO

Address:#1 ARCOS DRIVE

Box:308

City:MTCARMEL

State:PA

ZIP:17851

Country:US

Phone:717-339-5200, CHEMTREC 800-424-9300

CAGE:03805

Company Name:ARCOS ALLOYS DIVISION OF HOSKINS MFG. CO.

Address:#1 ARCOS DRIVE

Box:City:MT CARMEL

State:PA

ZIP:17851

Country:US

Phone:570-339-5200; 717-339-5200

CAGE:19270

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

Ingred

Name:CHROMIUM; (CR) (SARA 313) (CERCLA)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 20%
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:MANGANESE; (MN) (SARA 313)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 2.5%
OSHA PEL:5 MG/M3 DUST, C
ACGIH TLV:5 MG/M3 DUST

Ingred Name:MOLYBDENUM; (MO)
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: 3%
OSHA PEL:10 PPM
ACGIH TLV:10 PPM

Ingred Name:NICKEL; (NI) (SARA 313) (CERCLA)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 14%
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3

Ingred Name:IRON; (FE)
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: BALANCE
OSHA PEL:N/K
ACGIH TLV:N/K

Ingred Name:HAZ DECOMP PROD:BEING WELDED, PROCS, PROCESSES & TYPE OF
WIRE/ELECTRODES USED. OTHER INFLUENCING FACTORS ARE (ING 7)
RTECS #:9999999ZZ

Ingred Name:ING 6:PRESENCE OF CONTAMS IN ATM. DECOMP PRODS FROM
WELDING/CUTTING OPERATION INCL THOSE FROM VOLATILIZATION, RXN(ING
8)
RTECS #:9999999ZZ

Ingred Name:ING 7:&/OR

OXIDATION OF INGS & MAY INCL OXIDES OF METALS,
CHROMATES & COMPLEX METALLICS. GASEOUS RXN PRODS MAY (ING 9)
RTECS #:9999999ZZ

Ingred Name:ING 8:INCL CARBON MONOXIDE, OZONE & NITROGEN OXIDES.
CHLORINATED SOLVS MAY BE DECOMPOSED INTO TOX GASES SUCH AS (ING 10)
RTECS #:9999999ZZ

Ingred Name:ING 9:PHOSGENE. WHEN ELECTRODES ARE CONSUMED, FUME & GAS
DECOMP PRODS GENERATED ARE DIFF IN FORM FROM INGS. NEW (ING 11)
RTECS #:9999999ZZ

Ingred Name:ING 10:COMPDS NOT IN ELECTRODES MAY FORM. KNOW
N GASES &
FUMES THAT MAY FORM DURING WELDING/HOT CUTTING ARE: (ING 12)
RTECS #:9999999ZZ

Ingred Name:ING 11:ALUMINUM FUMES, CARBON MONOXIDE, CHROMIUM,
CHROMIUM(CHROMATES), COBALT FUME, COPPER FUME, IRON OXIDE (ING 13)
RTECS #:9999999ZZ

Ingred Name:ING 12:FUME, MANGANESE FUME, MOLYBDENUM, NICKEL, TUNGSTEN,
NITROGEN DIOXIDE, OZONE &/OR PHOSGENE.
RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP:EDEMA, ASPHYX & EXCESSIVE EXPOS CAN BE
FATAL. CHRONIC:EXPOS MAY RSLT IN NEUROLOGICAL DMG,
LUNG (ING 15)
RTECS #:9999999ZZ

Ingred Name:ING 14:FIBROSIS, PNEUMOCONIOSIS & OTHER LUNG DISEASES. IN
CASE OF ELEC SHOCK, TURN OFF POWER PRIOR TO REMOVAL (ING 16)
RTECS #:9999999ZZ

Ingred Name:ING 15:FROM EXPOSURE AREA & ADMINISTRATION OF FIRST AID.
RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP:CUTTING, GRINDING OR WELDING. PROVIDE
PROTECTIVE SCREENS TO SHIELD OTHERS.
RTECS #:9999999ZZ

Ingred Name:EXPLAN OF CARCIN:ON CARCINOGENS, 1994:ANTICIPATED TO BE
CARCINOGEN. HUMAN:LUNGS,

NASAL CAVITIES.
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:THIS PROD POSES NO HLTH HAZ AS SHIPPED, BUT MAY POSE HLTH HAZ DURING USE. ELEC ARC WELDING RAYS CAN INJURE EYES & BURN SKIN. DUST, FUMES & GASES CAN BE DANGEROUS TO YOUR HLTH. LUNG DMG MAY RSLT FROM OVEREXP. FUMES, GASES & DUST CAN BE HLTHHAZ THRU INHAL. ACUTE:SHORT TERM EXPOS TO WELDING FUMES, GASES/(EFFECTS OF OVEREXP)
Explanation of Carcinogenicity:NICKEL:IARC MONOGRAPHS ON EVAL OF CARCIN RISK OF CHEMS TO MAN, VOL 49, PG 257, 1990:GRP 2B. NTP 7TH ANNUAL RPT (ING 18)
Effects of Overexposure:HLTH HAZ:DUST MAY RSLT IN DISCOMFORT SUCH AS DIZZ, NAUS, FEVER, DRYNESS &/OR IRRIT OF NOSE, THROAT & EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. ACUTE EXPOS CAN RSLT IN SAME SYMPS EXCEPT TO GREATER DEGREE AS WELL AS WATERY EYES, HDCH, BRTHG DEFCLTY, FREQUENT COUGH &/OR CHEST PAINS. SOME TOX GASES MAY CAUSE PULM (ING 14)
Medical Cond Aggravated by Exposure:SOME WORKERS MAY EXPERIENCE DISCOMFORT AT CONCS BELOW TLVS & OTHERS MAY BE AFFECTED BY A PRE-EXISTING CONDITION OR OTHER OCCUP ILLNESS BECAUSE OF WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES.

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

First Aid:INHAL:REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT ADMINISTER OXYGEN. IF NOT BREATHING BEGIN ARTIFICIAL RESPIRATION. IF NO DETECTABLE PULSE BEGIN EXTERNAL HEART MASSAGE. SKIN:WASH AFFECTED AREA W/SO AP & WATER. EYES:FLUSH W/LARGE AMOUNTS OF FRESH WATER FOR AT LEAST 15 MINUTES. INGEST:SEEK MEDICAL ATTENTION. IN ALL CASES, SEEK MEDICAL ATTENTION FOR FIRST AID.

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

Flash Point:NONFLAMMABLE
Extinguishing Media:MEDIA SUITABLE

FOR SURROUNDING FIRE .

Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:ARCS, SPARKS & MOLTEN METAL CAN IGNITE FLAMMABLES & COMBUSTIBLES OR CAUSE EXPLOSIONS.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES & PLACE IN SUITABLE DOT APPROVED CONTAINERS. AVOID INHALATION & SKIN EXPOSURE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING.

Other Precautions:REFER TO FOLLOWING SOURCES FOR ADDNL IMPORTANT INFO:
ANSI Z49.1 - AMERICAN WELDING SOCIETY, P.O. BOX 351040, MIAMI, FL 33135; OSHA (29CFR 1910) - U.S. DEPT OF LABOR, WASHINGTON D.C. 20210.

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

Respiratory Protection:USE NIOSH/MSHA APPRVD WELD FUME RESP/AIR SUPPLIED RESP WHEN CUTTING, GRINDING/WELDING IN CONFINED SPACE/WHERE LOC EXHST/GEN VENT DOES NOT KEEP EXPOS BELOW REC LIMS. MONITOR AIR QUALITY INSIDE WELDER'S HELMET, IF WORN, &/OR WORKER'S (SUPDAT)

Ventilation:USE ENOUGH VENT WHEN CUTTING, GRINDING/WELDING TO KEEP DUST, FUMES & GASES FROM WORKERS BRTHG ZONE & GEN AREA. (SUPDAT)

Protective Gloves:WELDING GLOVES.

Eye Protection:ANSI APPROVED CHEM WORKERS GOGGS(SUPDAT)

Other Protective Equipment

:EYE WASH FOUNTAIN & DELUGE SHOWER WHICH MEET

ANSI DESIGN CRITERIA . WEAR FLAME RETARDANT CLTHG WHEN (ING 17)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

RESP PROT:BRTHG ZONE TO DETERMINE IF RESP IS REQD & TYPE NEEDED. USE ONLY NIOSH/MSHA APPRVD RESPS. VENT:KEEP EXPOS BELOW LIMS SPECIFIED. EYE PROT:& FULL LGTH FCSHLD . IN ADDN, WHEN HOT CUTTING/WELDING, WEAR WELDING HELMET/FCSHLD W/FILTER LENS. SELECT WELDING LENS SHADE FROM AWS PUB

LICATION F2.2.

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

HCC:T6

Appearance and Odor:BARE FILLER METALS ARE SOLID WIRE.

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

Stability Indicator/Materials to Avoid:YES
NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:WELDING & HOT CUTTING FUMES & GASES
CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION & QTY ARE DEPENDENT
ON
METAL (ING 6)

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

Waste Disposal Methods:DISPOSE OF IN FULL COMPLIANCE W/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. An
y person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.