

ARCOS ALLOYS DIV HOSKINS MFG CO -- BARE-WIRE FILLER METALS, 308 -- 3439-00-201-9119  
===== Product Identification =====

Product ID:BARE-WIRE FILLER METALS, 308

MSDS Date:05/01/1994

FSC:3439

NIIN:00-201-9119

MSDS Number: BZSTF

=== 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 =====

Ingre

d Name:IRON  
CAS:7439-89-6  
RTECS #:NO4565500  
Fraction by Wt: BALANCE  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:CHROMIUM (SARA 313) (CERCLA)  
CAS:7440-47-3  
RTECS #:GB4200000  
Fraction by Wt: 22%  
OSHA PEL:1 MG/M3  
ACGIH TLV:0.5 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:MANGANESE (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:NICKEL (SARA 313) (CERCLA)  
CAS:7440-02-0  
RTECS #:QR5950000  
Fraction by Wt: 11%  
OSHA PEL:1  
MG/M3  
ACGIH TLV:1 MG/M3

Ingred Name:SUPDAT: METALLICS. GASEOUS RXN PRODS MAY INCL CARBON  
MONOXIDE, OZONE & NITROGEN OXIDES. CHLORINATED SOLVS MAY BE (ING 6)  
RTECS #:9999999ZZ

Ingred Name:ING 5:DECOMPOSED INTO TOX GASES SUCH AS PHOSGENE. WHEN  
ELECTRODES ARE CONSUMED, FUME & GAS DECOMP PRODS GENERATED(ING 7)  
RTECS #:9999999ZZ

Ingred Name:ING 6:ARE DIFFERENT IN FORM FROM LISTED INGREDIENTS. NEW COMPOUNDS  
NOT IN ELECTRODES MAY FORM. KNOWN GASES & FUMES THAT (ING 8)  
RTECS #:9999999ZZ

Ingred N

ame:ING 7:MAY FORM DURING WELDING/HOT CUTTING ARE: ALUMINUM  
FUMES, CARBON MONOXIDE, CHROMIUM, CHROMIUM (CHROMATES), (ING 9)  
RTECS #:9999999ZZ

Ingred Name:ING 8: COBALT FUME, COPPER FUME, IRON OXIDE FUME, MANGANESE  
FUME, MOLYBDENUM (SOLUBLE), NICKEL (SOLUBLE), (ING 10)  
RTECS #:9999999ZZ

Ingred Name:ING 9: TUNGSTEN (SOLUBLE), NITROGEN DIOXIDE, OZONE,  
PHOSGENE.  
RTECS #:9999999ZZ

Ingred Name:EXPLAN OF CARCIN: ANNUAL REPORT ON CARCINS, 1994:ANTIC TO  
BE CARCIN. HUMAN:LUNGS, NASAL CA  
VITIES.  
RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP: RSLT IN NEUROLOGICAL DMG, LUNG FIBROSIS,  
PNEUMOCONIOSIS & OTHER LUNG DISEASES. CHROMIUM IS (ING 13)  
RTECS #:9999999ZZ

Ingred Name:ING 12: CONSIDERED POSS CARCIN UNDER OSHA (29CFR  
1910.1200). STUDIES FORMING BASIS FOR THIS CLASSIFICATION WERE (ING  
14)  
RTECS #:9999999ZZ

Ingred Name:ING 13: FROM OPERATIONS OTHER THAN WELDING. THERE IS  
CONSIDERABLE CONTROVERSY ON EXTENT OF RESP CANCER PROBS. (ING 15)  
RTECS #:9999999ZZ

Ingred  
Name:ING 14: NEVERTHELESS, EXPOSURE MUST BE MAINTAINED BELOW THE  
SPECIFIED LEVELS.  
RTECS #:9999999ZZ

Ingred Name:RESP PROT: &/OR WORKER'S BREATHING ZONE TO DETERMINE IF  
RESP IS REQD & TYPE NEEDED. USE ONLY NIOSH/MSHA APPRVD RESPS.  
RTECS #:9999999ZZ

Ingred Name:VENT: AREA. KEEP EXPOSURE BELOW LIMITS SPECIFIED.  
RTECS #:9999999ZZ

Ingred Name:EYE PROT: & FULL LENGTH FACESHIELD WITH FILTER LENS.  
SELECT WELDING LENS SHADE FROM AWS PUBLICATION F2.2.  
RTECS #:9999999ZZ

Ingred Name:OTHER P

ROT EQUIP: WELDING. DO NOT EXPOSE SKIN TO RADIA WHEN  
HOT CUTTING/WELDING. PROVIDE PROT SCREENS TO SHIELD OTHERS.  
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 HLTH.  
LUNG DMG MAY RSLT FROM OVEREXP . SHORT TERM EXPOS TO WELDING FUMES,  
GASES OR DUST MAY RSLT IN DISCOMFORT SUCH AS DIZZ, NAUS, FEVER,  
(EFTS OF OVEREXP)

Explanation of Carcinogenicity:NICKEL: IARC MONOGRAPHS ON EVALUATION OF  
CARCIN RISK OF CHEMS TO MAN, VOL 49, PG 257, 1990:GROUP 2B. NTP 7TH  
(ING 11)

Effects of Overexposure:HLTH HAZ: 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 DFCLTY, FREQUEN T COUGH &/OR CHEST PAINS. SOME TOX GASES MAY  
CAUSE PULM EDEMA, ASPHY & EXCESS EXPOS CAN BE FATAL. CHRONIC: MAY  
(ING 12)

Medical Cond Aggravated by Exposure:SOME WORKERS MAY EXPERIENCE  
DISCOMFORT AT CONCS BELOW THE TLV & OTHERS MAY BE AFFECTED BY  
PRE-EXISTING CNDTN OR OTHER OCCUP ILLNESS BECAUSE OF THE WIDE  
VARIATION IN INDIVIDUAL SUSCEPTIBILI  
TIES.

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

First Aid:IN CASE OF ELEC SHOCK, TURN OFF POWER PRIOR TO REMOVAL FROM  
EXPOS AREA & ADMIN OF FIRST AID. INHAL:REMOVE TO FRESH AIR. IF  
BRTHG IS DFCLT ADMIN OXYGEN. IF NOT BRTHG BEGIN ARTF RESP. IF NO  
DETECTABLE P ULSE BEGIN EXTERNAL HEART MASSAGE. SKIN: WASH AFFECTED  
AREA W/SOAP & WATER. EYES: FLUSH W/LG AMTS OF FRESH WATER FOR AT  
LEAST 15 MIN. INGEST: SEEK MED ATTN. IN ALL CASES, SEEK MED ATTN  
FOR

FIRST AID.

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

Flash Point:NONFLAMMABLE

Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE .

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

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

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

Spill Release Procedure

s:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DOT APPROVED CONTAINERS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:USE NIOSH/MSHA APPRVD WELD FUME RESP OR AIR SUPPLIED RESP WHEN CUTTIN

G, GRINDING OR WELDING IN CONFINED SPACE

OR WHERE LOC EXHST OR GEN VENT DOES NOT KEEP EXPOS BELOW RECOM LIMS. MONITOR AIR QUALITY I NSIDE WELDER'S HELMET, IF WORN, (ING 16)

Ventilation:USE ENOUGH VENT WHEN CUTTING, GRINDING OR WELDING TO KEEP DUST, FUMES & GASES FROM WORKERS BRTHG ZONE & GEN (ING 17)

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGS (ING 18)

Other Protective Equipment:ANSI APPRVD EYE WASH & DELUGE SHOWER . WEAR GLOVES & FLAME

RETARDANT CLTHG WHEN CUTTING, GRINDING OR (ING 19)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

HAZ DECOMP PRODS: BEING WELDED, THE PROCS, PROCESSES & TYPE OF WIRE OR ELECTRODES USED. OTHER INFLUENCING FACTORS ARE PRESENCE OF CONTAMS IN ATM. DECOMP PRODS FORM WELDING OR CUTTING OPERATION INCL TH OSE FROM VOLATILIZATION, RXN &/OR OXIDATION OF LISTED MATLS & MAY INCL OXIDES OF METALS, CHROMATES & COMPLEX (ING 5)

===== Physic

al/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 (SUPDAT)

===== Dis  
posal Considerations =====

Waste Disposal Methods:DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL,  
STATE AND LOCAL REGULATIONS. AVOID INHALATION AND SKIN EXPOSURE.

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