

ARCOS ALLOYS DIV HOSKINS MFG CO -- BARE-WIRE FILLER METALS, MS-2 -- 3439-01-050-1655
===== Product Identification =====

Product ID:BARE-WIRE FILLER METALS, MS-2
MSDS Date:05/01/1994
FSC:3439
NIIN:01-050-1655
MSDS Number: CBQPF
=== 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
Phone 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 =====

Ingr

ed Name:IRON, ION (FE2+); (FE)
CAS:15438-31-0
Fraction by Wt: BALANCE
OSHA PEL:10 MG/M3 (FE)
ACGIH TLV:5MG(FE)/M3FUME,B2;95

Ingred Name:CHROMIUM; (CR) (SARA 313) (CERCLA)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 0.1%
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9495
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: 1.0%
OSHA PEL:C 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9495

Ingred Name:NICKEL; (NI) (SARA 313) (CERCLA)
CAS:744
0-02-0
RTECS #:QR5950000
Fraction by Wt: 0.1%
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9495

Ingred Name:SUPDAT:OXIDES OF THE METALS, CHROMATES & COMPLEX METALLICS.
GASEOUS RXN PRODS MAY INCL CARBON MONOXIDE, OZONE & (ING 6)
RTECS #:9999999ZZ

Ingred Name:ING 5:NITROGEN OXIDES. CHLORINATED SOLVS MAY BE DECOMPOSED
INTO TOXIC GASES SUCH AS PHOSGENE. WHEN THE ELECTRODES(ING 7)
RTECS #:9999999ZZ

Ingred Name:ING 6:ARE CONSUMED, THE FUME & GAS DECOMP PRODS GENERATED
ARE DIFFERENT IN FORM FROM

THE INGREDIENTS LISTED. (ING 8)
RTECS #:9999999ZZ

Ingred Name:ING 7:NEW COMPOUNDS MAY FORM INCLUDING:ALUMINUM FUMES, CARBON MONOXIDE, CHROMIUM, CHROMIUM (CHROMATES), (ING 9)
RTECS #:9999999ZZ

Ingred Name:ING 8:COBALT FUME (CO), COPPER FUME (CU), IRON OXIDE FUME (AS FE), MANGANESE FUME (MN), MOLYBDENUM (MO) (ING 10)
RTECS #:9999999ZZ

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

Ingred Name:EFFECTS OF OXIDES
REASON:FORMING THE BASIS FOR THIS CLASSIFICATION
WERE FROM OPERATIONS OTHER THAN WELDING OF CHROMIUM (ING 12)
RTECS #:9999999ZZ

Ingred Name:ING 11:OR NICKEL. THERE IS CONSIDERABLE CONTROVERSY ON THE EXTENT OF THE RESPIRATORY CANCER PROBLEMS DUE TO NICKEL & (ING 13)
RTECS #:9999999ZZ

Ingred Name:ING 12:CHROMIUM. NEVERTHELESS EXPOSURES MUST BE MAINTAINED BELOW THE LEVELS SPECIFIED IN INGREDIENTS & HAZARD DECOMPOSITION (ING 14)
RTECS #:9999999ZZ

Ingred Name:ING 13:PRODUCTION SECTIONS. ELECTRIC ARC RAYS CAN INJURE EYES AND BURN SKIN.
RTECS #:9999999ZZ

Ingred Name:MEDICAL CONDITIONS:WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES.
RTECS #:9999999ZZ

Ingred Name:RESPIRATORY PROTECTION:DETERMINING BREATHING ZONE TO DETERMINE IF A RESPIRATOR IS REQUIRED & THE TYPE NEEDED. USE ONLY NIOSH/MSHA APPROVED RESPIRATORS.
RTECS #:9999999ZZ

Ingred Name:VENTILATION:KEEP EXPOSURE BELOW THE LIMITS SPECIFIED IN INGREDIENTS AND HAZARD DECOMPOSITION PRODUCTION SECTION.
RTECS #:9999999ZZ

Ingred Name:EYE PROTECTION:AND/OR FACE SHIELD WHEN CUTTING, GRINDING/WELDING. IN ADDITION, WEAR

EN HOT CUTTING/WELDING, WEAR WELDING (ING 19)

RTECS #:9999999ZZ

Ingred Name:ING 18:HELMET/FACE SHIELD W/FILTER LENS. SELECT WELDING
LENS SHADE FROM AMERICAN WELDING SOCIETY (AWS) PUBLICATION F2.2.

RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP:/WELDING. DO NOT EXPOSE SKIN TO RADIA WHEN
HOT CUTTING/WELDING. PROVIDE PROT SCREENS TO SHIELD OTHERS.

RTECS #:9999999ZZ

Ingred Name:EXPLAN OF CARCIN:GROUP 2B. NTP 7TH ANNUAL REPORT ON
CARCINOGENS, 1994: ANTICIPATED TO BE CARCINOGEN.

RTECS #

:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:ACUTE: GASES 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. ACUTE EXPOSURE CAN RESULT IN THE SAME SYMP

TOMS EXCEPT TO A

GREATER DEGREE AS WELL AS WATERY EYES, HEADACHE, BREATHING
DIFFICULTY, (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NICKEL:IARC MONOGRAPHS ON THE EVALUATION
OF CARCINOGENIC RISK OF CHEMICALS TO MAN: VOL 49, PG 257, 1990:
(ING 21)

Effects of Overexposure:HLTH HAZ:FREQUENT COUGHING &/CHEST PAINS. SOME
TOX GASES MAY CAUSE PULM EDEMA, ASPHYXIATION & EXCESSIVE EXPOS CAN
BE FATAL. CHRONIC:MAY RESULT IN NEUROLOGICAL DMG, LUNG FIBROSIS,
PNEUMOCONIOSIS & O

THE R LUNG DISEASES. NICKEL & CHROMIUM ARE
CONSIDERED POSS CARCINOGENS UNDER OSHA (29CFR 1910.1200). THE
STUDIES (ING 11)

Medical Cond Aggravated by Exposure:SOME WORKERS MAY EXPERIENCE
DISCOMFORT AT CONCENTRATIONS BELOW THE THRESHOLD LIMIT VALUES AND
OTHERS MAY BE AFFECTED BY A PRE-EXISTING CONDITION OR OTHER
OCCUPATIONAL ILLNESS BECAUSE OF THE (ING 15)

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

First Aid:IN CASE OF ELEC SHOCK, TURN OFF POWER PRIO

R TO REMOVAL FROM

EXPOS AREA & ADMIN OF FIRST AID. INHAL:REMOVE TO FRESH AIR. IF BRTHG IS DFCLT ADMINISTER OXYGEN. IF NOT BRTHG BEGIN ARTF RESP. IF NO DETECTA BLE PULSE BEGIN EXTERNAL HEART MASSAGE.SKIN:WASH AFFECTED AREA W/SOAP & H*2O. EYES:FLUSH W/LRG AMTS OF FRESH H*2O FOR AT LEAST 15 MIN. INGEST:SEEK MED ATTN. IN ALL CASES, SEEK MED ATTN FOR FIRST AID.

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Fire Fighting Measures
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Flash Point:NONFLAMMABLE

Extinguishing Media:M

EDIA SUITABLE FOR SURROUNDING FIRE

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

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

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Accidental Release Measures
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Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DEPARTMENT OF TRANSPORTATION (DOT) APROVED CONTAINERS AN

D DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AV OID INHALATION AND SKIN EXPOSURE.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage
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Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:WEAR GLOVES AND FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING. PROVIDE PROTECTIVE SCREENS TO SHIEL

D

OTHERS.

=====
Exposure Controls/Personal Protection
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Respiratory Protection:USE WELD FUME RESP/AIR SUPPLIED RESP WHEN CUTTING, GRINDING/WELDING IN A CONFINED SPACE/WHERE LOC EXHAUST/GEN VENT DOES NOT KEEP EXPOS BELOW REC LIMS. MONITOR THE AIR QUALITY INSIDE THE WELDER'S HELME T, IF WORN, &/THE WORKER'S (ING 16)

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

Protecti

ve Gloves:IMPERVIOUS GLOVES .

Eye Protection:USE OSHA APPRVD GOGGLES, GLASSES(ING 18)

Other Protective Equipment:ANSI APPRVD EMER EYE WASH & DELUGE SHOWER .

WEAR GLOVES & FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING (ING 20)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

HAZ DECOMP PROD:METAL BEING WELDED, THE PROCEDURES, PROCESSES & TYPE OF WIRE/ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THE PRESENCE OF CONTAMS IN THE ATM. DECOMP PR

ODS FROM THE WELDING/CUTTING OP

ERATION INCL THOSE FROM THE VOLATILIZATION, REACTION &/OXIDATION OF THE MATLS IN INGRED SECTION & MAY INCL (ING 5)

===== 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.

Hazard

ous Decomposition Products:WELDING & HOT CUTTING FUMES & GASES

CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION & QTY ARE DEPENDENT ON THE (SUPDAT)

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

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

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