

ARCOS ALLOYS DIV HOSKINS MFG CO -- BARE-WIRE FILLER METALS, 813 -- 3439-00-205-1003
===== Product Identification =====

Product ID:BARE-WIRE FILLER METALS, 813

MSDS Date:05/01/1994

FSC:3439

NIIN:00-205-1003

MSDS Number: CDVGF

=== 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:IRON; (FE)
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 1%
OSHA PEL:N/K
ACGIH TLV:N/K

Ingred Name:CHROMIUM; (CR) (SARA 313) (CERCLA)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 0.01%
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:COPPER; (CU) (SARA 313) (CERCLA)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 70.5%
OSHA PEL:0.1MG/M3 FUME;1 DUST
ACGIH TLV:0.2 MG/M3 FUME
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:NICKEL; (NI) (SARA 313) (CERCLA)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 32%
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3

Ingred Name:EFTS OF OVEREXP:CHRONIC:EXPOS MAY RSLT IN NEUROLOGICAL DMG,
LUNG FIBROSIS, PNEUMOCONIOSIS & OTHER LUNG DISEASES. (ING 6)
RTECS #:9999999ZZ

Ingred Name:ING 5:CHROMIUM IS CONSIDERED POSS CARCIN UNDER OSHA (29 CF4
1910.1200) (MFR). STUDIES FORMING BASIS FOR THIS (ING 7)
RTECS #:9999999ZZ

Ingred Name:ING 6:CLASSIFICATION WERE FROM OPERATIONS OTHER THAN
WELDING OF CHROMIUM. T

HERE IS CONSIDERABLE CONTROVERSY ON (ING 8)
RTECS #:9999999ZZ

Ingred Name:ING 7:EXTENT OF RESP CANCER PROBS DUE TO CHROMIUM.
NEVERTHELESS EXPOS MUST BE MAINTAINED BELOW LEVELS SPECIFIED.
RTECS #:9999999ZZ

Ingred Name:OTHER PROT EQUIP:PROVIDE PROTECTIVE SCREENS TO SHIELD
OTHERS.
RTECS #:9999999ZZ

Ingred Name:HAZ DECOMP PROD:BEING WELDED, PROCS, PROCESSES & TYPE OF
WIRE/ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THE(ING 11)
RTECS #:9999999ZZ

Ingred Name:ING 10:PRESENCE OF CONTA
MS IN ATM. DECOMP PRODS FROM
WELDING/CUTTING OPERATION INCL THOSE FROM VOLATILIZATION, (ING 12)
RTECS #:9999999ZZ

Ingred Name:ING 11:RXN &/OR OXIDATION OF INGS & MAY INCL OXIDES OF
METALS, CHROMATES & COMPLEX METALLICS. GASEOUS RXN PRODS (ING 13)
RTECS #:9999999ZZ

Ingred Name:ING 12:MAY INCL CARBON MONOXIDE, OZONE & NITROGEN OXIDES.
CHLORINATED SOLVS MAY BE DECOMPOSED INTO TOX GASES (ING 14)
RTECS #:9999999ZZ

Ingred Name:ING 13:SUCH AS PHOSGENE. WHEN ELECTRODES ARE CONSUMED, FUME
& GAS DECOMP PRODS GENERATED ARE DIFF IN FORM FROM (ING 15)
RTECS #:9999999ZZ

Ingred Name:ING 14:INGS LISTED. NEW CMPDS NOT IN ELECTRODES MAY FORM.
KNOWN GASES & FUMES THAT MAY FORM DURING WELDING/HOT (ING 16)
RTECS #:9999999ZZ

Ingred Name:ING 15:CUTTING & THEIR EXPOS LIMS ARE:ALUMINUM FUMES,
CARBON MONOXIDE, CHROMIUM, CHROMIUM (CHROMATES), COBALT (ING 17)
RTECS #:9999999ZZ

Ingred Name:ING 16:FUME(CO), COPPER FUME(CU), IRON OXIDE FUME(FE),
MANGANESE FUME(MN), MOLYBDENUM(MO) (S

OLUBLE), NICKEL(NI) (ING 18)
RTECS #:9999999ZZ

Ingred Name:ING 17:(SOLUBLE), TUNGSTEN(W) (SOLUBLE), NITROGEN DIOXIDE,
OZONE & PHOSGENE.
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
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 RAGS CAN INJURE
EYES & BURN SKIN. DUST, FUMES & GASES CAN BE DANGEROUS TO YOUR
TEETH. LUNG DMG MAY RESULT FROM OVEREXPOSURE. ACUTE:SHORT TERM EXPOSURE TO
WELDING FUMES, GASES/DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS,
NAUSEA, (EFFECTS OF OVEREXPOSURE)

Explanation of Carcinogenicity:NICKEL:IARC MONOGRAPHS ON EVALUATION OF CARCINOGENIC
RISK OF CHEMICALS TO MAN, VOL 49, PG 257, 1990:GRP 2B. NTP 7TH ANNUAL
REPORT (SUPPLEMENT)

Effects of Overexposure:HEALTH HAZARD:FEVER, DRYNESS &/OR IRRITATION OF NOSE,

THROAT & EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. ACUTE EXPOSURE CAN
RESULT IN SAME SYMPTOMS EXCEPT TO GREATER DEGREE AS WELL AS WATERY EYES,
HEADACHE, BRONCHITIS, FREQUENT COUGH &/OR CHEST PAINS. SOME TOXIC
GASES MAY CAUSE PULMONARY EDEMA, ASPHYXIA & EXCESSIVE EXPOSURE CAN BE FATAL.
(ING 5)

Medical Condition Aggravated by Exposure:SOME WORKERS MAY EXPERIENCE
DISCOMFORT AT CONCENTRATIONS BELOW THE TLVs & OTHERS MAY BE AFFECTED BY A
PRE-EXISTING CONDITION OR OTHER OCCUPATIONAL ILLNESS BECAUSE OF WIDE
VARIATION

IN INDIVIDUAL SUSCEPTIBILITIES.

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

First Aid:IN CASE OF ELECTRIC SHOCK, TURN OFF POWER PRIOR TO REMOVAL FROM
EXPOSURE AREA & ADMINISTER FIRST AID. INHALATION:REMOVE TO FRESH AIR. IF
BRONCHITIS IS DEVELOPING ADMINISTER OXYGEN. IF NOT BRONCHITIS BEGIN ARTIFICIAL RESPIRATION. IF NO
DETECTABLE PULSES BEGIN EXTERNAL HEART MASSAGE. SKIN:WASH AFFECTED
AREA WITH SOAP & WATER. EYES:FLUSH WITH LARGE AMOUNTS OF FRESH WATER FOR AT LEAST
15 MINUTES. INGESTION:SEEK MEDICAL ATTENTION. IN ALL CASES, STOP

EK MED ATTN FOR
FIRST AID.

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Fire Fighting Measures
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Flash Point:NONFLAMMABLE

Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE .

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

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

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Accidental Release Measures
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Spill Release

Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES & PLACE IN SUITABLE DEPARTMENT OF TRANSPORTATION (DOT) APPROVED CONTAINERS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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Exposure Controls/Personal Protection
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Respiratory Protection:USE NIOSH APPRVD WELD FUME RESP OR 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:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPRVD CHEM WORKER'S GOGGS &(SUPDAT)

Other Protective Equipment:ANSI APPRVD EYE WASH FOUNTAIN & DELUGE SHOWER . WEAR FLAME RETARDANT CLTHG WHEN CUTTING, GRINDING/WELDING. (ING 9)

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EXPLAN OF CARCIN:ON CARCIN, 1994:ANTIC TO BE CARCIN. ANIMAL:LUNGS, NASAL CAVITIES. RESP PROT:BRTHG ZONE TO DETERM IF RESP IS REQD & TYPE NEEDED. USE ONLY NIOSH APPRVD RESPS. VENT:KEEP EXPOS BELOW LIMS SPECIFIED. EYE PROT:FULL LGTH F

CSHLD ; W/FILTER LENS. SELECT
WELDING LENS SHADE FROM AWS PUBLICATION 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 B

E CLASSIFIED SIMPLY. THEIR COMPOSITION & QTY ARE DEPENDENT
ON METAL (ING 10)

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

Waste Disposal Methods:DISPOSE OF IN FULL COMPLIANCE W/FEDERAL, STATE &
LOCAL REGULATIONS.

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