

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 Phone Num:800-424-9300(CHEMTREC)

CAGE:03805

=== Contractor Identif

ication ===

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

I

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 CONTAMS 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) (SOLUBLE), 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 RSLT FROM O VEREXP. ACUTE:SHORT TERM EXPOS TO
WELDING FUMES, GASES/DUST MAY RSLT IN DISCOMFORT SUCH AS DIZZ,
NAUS, (EFTS 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 (SUPDAT)

Effects of Overexposure:HLTH HAZ:FEVER, DRYNESS &/OR IRRIT OF NOSE,
THROAT & EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. ACUTE EXPOS C
AN

RSLT IN SAME SYMPS EXCEPT TO GREATER DEGREE AS WELL AS WATERY EYES,
HDCH, BRTHG DFCLTY, F REQUENT COUGH &/OR CHEST PAINS. SOME TOX
GASES MAY CAUSE PULM EDEMA, ASPHY & EXCESSIVE EXPOS CAN BE FATAL.
(ING 5)

Medical Cond Aggravated by Exposure:SOME WORKERS MAY EXPERIENCE
DISCOMFORT AT CONCS BELOW THE TLVS & OTHER MAY BE AFFECTED BY A
PRE-EXISTING CONDITION OR OTHER OCCUP ILLNESS BECAUSE OF WIDE
VARIATION IN INDIVIDUAL SUSCEPTIBILITIES.

===== 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 OXYG. IF NOT BRTHG BEGIN ARTF RESP. IF NO
DETECTABLE PUL SE BEGIN EXTERNAL HEART MASSAGE. SKIN:WASH AFFECTED
AREA W/SOAP & WATER. EYES:FLUSH W/LG AMTS OF FRESH WATER FOR AT LST
15 MINS. INGEST:SEEK MED ATTN. IN ALL CASES, SEEK MED ATTN FOR
FIRST AID.

===== Fire Fig

Handling Measures =====

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.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES & PL

ACE IN SUITABLE DEPARTMENT OF TRANSPORTATION (DOT) APPROVED CONTAINERS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

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.

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

Respiratory Protection:USE NIOSH APPRVD WELD FUME R
ESP 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 H ELMET, 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 WORKERS GOGGS &(SUPDAT)

Other Protective Equipment:ANSI APPRVD EYE WAS

H 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 FCSHLD ; W/FILTER LENS. SELECT
WELDING LENS SHADE FROM AWS PU

BLICATION 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

O

N METAL (ING 10)

===== 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.

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.