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

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 #:009275000 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 #:9999992Z

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 #:9999992Z

Ingred Name:ING 10:CMPDS NOT IN ELECTRODES MAY FORM. KNOW N GASES &

FUMES THAT MAY FORM DURING WELDING/HOT CUTTING ARE: (ING 12) RTECS #:9999992Z

Ingred Name:ING 11:ALUMINUM FUMES, CARBON MONOXIDE, CHROMIUM, CHROMIUM(CHROMATES), COBALT FUME, COPPER FUME, IRON OXIDE (ING 13) RTECS #:9999992Z

Ingred Name:ING 12:FUME, MANGANESE FUME, MOLYBDENUM, NICKEL, TUNGSTEN, NITROGEN DIOXIDE, OZONE &/OR PHOSGENE.
RTECS #:9999992Z

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 #:9999992Z

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

RTECS #:9999992Z

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

## NASAL CAVITIES. RTECS #:9999992Z

========== 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 MA

Y RSLT FROM O VEREXP. FUMES, GASES & DUST CAN BE HLTHHAZ THRU INHAL. ACUTE:SHORT TERM EXPOS TO WELDING FUMES, GASES/(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 (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 DEGR EE AS WELL AS WATERY EYES, HDCH, BRTHG DFCLTY, 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: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 MANU FACTURER.

========== 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/W ELDING, WEAR WELDING HELMET/FCSHLD W/FILTER LENS. SELECT WELDING LENS SHADE FROM AWS PUB

========= 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.

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