

ARCOS ALLOYS DIV HOSKINS MFG CO -- STAINLESS STEEL ALLOYS, 308 -- 3439-01-067-0697

===== Product Identification =====

Product ID:STAINLESS STEEL ALLOYS, 308

MSDS Date:05/01/1994

FSC:3439

NIIN:01-067-0697

MSDS Number: CHDYK

=== 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 Phon

e 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: BALANCE
OSHA PEL:N/K
ACGIH TLV:N/K

Ingred Name:CHROMIUM; (CR) (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; (MN) (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; (NI) (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: RXN PRODS MY INCL CARBON MONOXIDE, OZONE & NITROGEN
OXIDES. CHLORINATED SOLVS MAY BE DECOMPOSED INTO TOX (ING 6)
RTECS #:9999999ZZ

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

Ingred Name:ING 6: FROM LISTED INGREDIENTS. NEW COMPOUNDS NOT IN ELECTRODES MAY
FORM. KNOWN GASES & FUMES THAT MAY FORM DURING (ING 8)
RTECS #:99999

99ZZ

Ingred Name:ING 7:WELDING/HOT CUTTING ARE: ALUMINUM FUMES, CARBON MONOXIDE, CHROMIUM, CHROMIUM (CHROMATES), COBALT FUME (CO),(ING 9)
RTECS #:9999999ZZ

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

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

Ingred Name:EFTS OF OVEREXP: NICKEL & CHROMIUM ARE CONSIDERED POSS CARCI
NS UNDER OSHA (29CFR 1910.1200). STUDIES FORMING (ING 12)
RTECS #:9999999ZZ

Ingred Name:ING 11: BASIS FOR THIS CLASSIFICATION WERE FROM OPERATIONS OTHER THAN WELDING OF CHROMIUM OR NICKEL. THERE IS (ING 13)
RTECS #:9999999ZZ

Ingred Name:ING 12: CONSIDERABLE CONTROVERSY OF THE RESP CANCER PROBS DUE TO NICKEL & CHROMIUM. NEVERTHELESS EXPOS MUST BE (ING 14)
RTECS #:9999999ZZ

Ingred Name:ING 13: MAINTAINED BELOW LEVELS SPECIFIED.
RTECS #:9999999ZZ

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

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

Ingred Name:EYE PROT: & FULL LENGTH FSHLD W/FILTER LENS. SELECT WELDING LENS SHADE FROM AMERICAN WELDING SOCIETY PUB F2.2.
RTECS #:9999999ZZ

Ingred Name:OTHER PROC EQUIP: DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING. PROVIDE PROT SCREENS TO SHIELD OTHERS.
RTECS #:9999999ZZ

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===== 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: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/DUST MAY RSLT IN DISCOMFORT SU CH AS DIZZ, NAUS, FEVER, DRYNES

S &/OR IRRIT OF NOSE, THROAT & EYES. SKIN SENSITIVITY MAY ALSO BE NOTED.(EFTS OF OVEREXP)

Explanation of Carcinogenicity:NICKEL: IARC MONOGRAPHS, VOL 49, PG 257, 1990:GROUP 2B. NTP 7TH ANNUAL REPORT ON CARCINS: 1994:ANTIC TO BE CARCIN.

Effects of Overexposure:HLTH HAZ: ACUTE EXPOS CAN RSLT IN SAME SYMPS EXCEPT TO GREATER DEGREE AS WELL AS WATERY EYES, HDCH, BRTHG DFCLTY, FREQUENT COUGH &/OR CHEST PAINS. SOME TOX GASES MAY CAUSE PULM EDEMA, ASPHY & EXCESS E XPOS CAN BE FAT

AL. CHRONIC EXPOS MAY RSLT IN NEURO DMG, LUNG FIBROSIS, PNEUMONCONIOSIS & OTHER LUNG DISEASES. (ING 11)

Medical Cond Aggravated by Exposure:SOME WORKERS MAY EXPERIENCE DISCOMFORT AT CONCS BELOW THE TLV & OTHERS MAY BE AFFECTED BY PRE-EXISTING CNDTNS 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 & ADMINISTRATION OF FIRST AID. INHAL: REMOVE TO FRESH AIR. IF BREATHING IS DFCLT ADMIN OXYGEN. IF NOT BREATHING BEGIN ARTF RESP. IF NO DETECTABLE PULSE BEGIN EXTERNAL HEART MASSAGE. SKIN: WASH AFFECTED AREA W/SOAP & WATER. EYES: FLUSH W/LARGE AMOUNTS OF FRESH WATER FOR AT LEAST 15 MINUTES. INGEST: SEEK MED ATTN.

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

Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE .
Fire Fighting Pr

cedures:USE NIOSH 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 Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DOT APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID

INHALATION AND SKIN EXPOSURE.

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 APPROVED WELD FUME RESP OR AIR SUPPLIED RESP WHEN CUTTING, GRINDING OR WELDING IN CONFINED SPACE OR WHERE LOC EXHST OR GEN

VENT DOES NOT KEEP EXPOS BELOW RECOM LIMITS.

MONITOR AIR QUALITY INSIDE WELDER'S HELMET, IF WORN, (ING 15)

Ventilation:USE ENOUGH VENT WHEN CUTTING, GRINDING OR WELDING TO KEEP DUST, FUMES & GASES FROM WORKER'S BREATHING ZONE & GEN (ING 16)

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPROVED CHEM WORKERS GOGGLES (ING 17)

Other Protective Equipment:ANSI APPROVED EYE WASH & DELUGE SHOWER .

WEAR FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING OR WELDING. (ING 18)

Work Hygienic

Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

HAZ DECOMP PRODS: PROCESSES, PROCESSES & TYPE OF WIRE/ELECTRODES USED.

OTHER INFLUENCING FACTORS ARE PRESENCE OF CONTAMINANTS IN ATM.

DECOMP PRODS FROM WELDING/CUTTING OPERATIONS INCLUDE THOSE FROM

VOLATILIZATION, RXN &/OR OXIDATION OF MATERIALS LISTED & MAY INCLUDE

OXIDES OF METALS, CHROMATES & COMPLEX METALLICS. GASEOUS (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.
Hazardous Decomposition Products:WELDING & HOT CUTTING FUMES & GASES
CANNOT BE CLASSIFIED SIMPLY. COMPOSITION & QTY DEPEND ON METAL
BEING WELDED,(SUPDAT)

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

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

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particular situation.