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ARCOS ALLOYS -- STAINLESS STEEL ALLOY, 309 -- 3439-01-190-0661

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

Product ID:STAINLESS STEEL ALLOY, 309

MSDS Date:06/08/1990

FSC:3439

NIIN:01-190-0661

MSDS Number: BVNGV === Responsible Party ===

Company Name: ARCOS ALLOYS

Address:#1 ARCOS DRIVE

City:MT CARMEL

State:PA ZIP:17851 Country:US

Info Phone Num:717-339-5200

Emergency Phone Num:800-424-9300(CHEMTREC)

CAGE:GO

252

=== Contractor Identification === Company Name:ARCOS ALLOYS

Address:1 ARCOS DR

Box:308

City:MT CARMEL

State:PA

ZIP:17851-0308

Country:US

Phone:717-339-5200

CAGE:GO252

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

====== Composition/Information on Ingredients ========

Ingred Name:CHROMIUM; (CR)

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 25%

OSH

A 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 III)

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 III)

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:SUPDAT:WELDING/HOT CUTTING ARE: ALUMINUM FU

MES, CARBON

MONOXIDE, CHROMIUM, CHROMIUM (CHROMATES), COBALT FUME, (ING 6)

RTECS #:9999999ZZ

Ingred Name:NG 5:COPPER FUME, IRON OXIDE FUME, MANGANESE FUME, MOLYBDENUM, NICKEL, TUNGSTEN, NITROGEN DIOXIDE, OZONE, PHOSGENE. RTECS #:9999992Z

Ingred Name:EXPLAN OF CARCIN:HUMAN/ANIMAL:LUNG CANCER, SKIN ULCERS. NICKEL:IARC MONOGRAPHS ON EVAL OF CARCIN RISK OF CHEMS TO(ING 8) RTECS #:9999999ZZ

Ingred Name:ING 7:MAN, VOL 49, PG 257, 1990:GRP 2B. NTP 6TH ANNUAL REPORT ON CARCINOGENS, 1

991:ANTICIPATED TO BE CARCINOGEN. (ING 9) RTECS #:9999999ZZ

Ingred Name: ING 8: HUMAN: LUNG, NASAL CAVITIES.

RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP:CHRONIC:EXPOS MAY RSLT IN NEUROLOGICAL DMG, LUNG FIBROSIS, PNEUMOCONIOSIS & OTHER LUNG DISEASES.

RTECS #:9999999ZZ

Ingred Name:RESP PROT:WORN, &/OR WORKER'S BRTHG ZONE TO DETERMINE IF RESP IS REQUIRED & TYPE NEEDED.

RTECS #:9999999ZZ

Ingred Name: VENT: KEEP EXPOSURE BELOW LIMITS SPECIFIED.

RTECS #:9999999ZZ

Ingred Name:EYE PROT:WHEN CU

TTING, GRINDING/WELDING. IN ADDN, WHEN HOT

CUTTING/WELDING, WEAR WELDING HELMET & FACE SHIELD W/(ING 14)

RTECS #:9999999ZZ

Ingred Name: ING 13: FILTER LENS. SELECT WELDING LENS SHADE FROM AWS PUBLICATION F2.2.

RTECS #:9999999ZZ

Ingred Name: OTHER PROT EQUIP: SCREENS TO SHIELD OTHERS.

RTECS #:9999999ZZ

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

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

Reports of Carc

inogenicity: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 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:CHROMIUM:IARC MONOGRAPHS, VOL 49, PG 49, 1990:GR

P 1. NTP 6TH ANNUAL RPT ON CARCINS, 1991:KNOWN TO BE CARCIN. (ING 7) Effects of Overexposure: HLTH HAZ: FEVER, DRYNESS & OR IRRIT OF NOSE, THROAT & EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. ACUTE EXPOS CAN 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 10) 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 THE WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES. 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 OXYGEN, IF NOT BRTHG BEGIN ARTF RESP. IF NO DETECTABLE P ULSE BEGIN EXTERNAL HEART M ASSAGE. SKIN:WASH AFFECTED AREA W/SOAP & WATER. EYES:FLUSH W/LG AMTS OF WATER FOR AT LST 15 MINS. INGEST:SEEK MED ATTN. IN ALL CASES, SEEK MED ATTN FOR FIRST AID. 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

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

Handling and Storage Precautions: DO NOT EXPOSE SKIN TO RADIATION WHEN

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

HOT CUTTING OR WELDING. AVOID INHALATION

EXPOSURE.

& SKIN EXPOSURE. Other Precautions:REFER TO FOLLOWING SOURCES FOR ADDNL IMPORTANT INFO: ANSI Z49.1, AWS, P.O. BOX 351040, MIAMI, FL 33135 OR OSHA (29 CFR 1910) U.S. DEPT OF LABOR, WASHINGTON D.C. 20210.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:USE ONLY NIOSH/MSHA APPRVD RESPS. USE WELD FUME RESP/AIR SUPPLIED RESP WHEN CUTTING, GRINDING/WELDING IN CONFINED SPACE/WHERE LOC EXHST/GEN VENT DOSE NOT KEEP EXPOS BELOW REC LIMS. MON
ITOR AIR QUALITY INSIDE WELDER'S HELMET, IF (ING 11) Ventilation:USE ENOUGH VENT WHEN CUTTING, GRINDING/WELDING TO KEEP DUST, FUMES & GASES FROM WORKERS BRTHG ZONE & GEN AREA. (ING 12) Protective Gloves:WELDER'S GLOVES.
Eye Protective Gloves: WELDER'S GLOVES. Eye Protection: USE OSHA APPRVD GOGGS & FCSHLD (ING 13) Other Protective Equipment: EMER EYE WASH & DELUGE SHOWER. WEAR FLAME RETARDANT CLTHG WHEN CUTTING, GRINDING/WELDING. PROVIDE PROT (ING 15)
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER. Supplemental Saf ety and Health
HAZ DECOMP PROD:CONTAMS IN ATM. DECOMP PRODS MAY INCL OXIDES OF METALS CHROMATES & COMPLEX METALLICS. GASEOUS RXN PRODS MAY INCL CARBON MONOXIDE, OZONE & NITROGEN OXIDES. CHLORINATED SOLVS MAY BE DEC OMPOSED INTO TOX GASES SUCH AS PHOSGENE. FUMES & GASES MAY VARY IN FORM. KNOWN GASES & FUMES THAT MAY FORM DURING(ING 5)
========= Physical/Chemical Properties =========
Appearance and Odor:BARE FILLER METALS ARE A SOLID WIRE.
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Stability Indicator/Materials to Avoid:YES NONE SPECIFIED BY MANUFACTURER. Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER. Hazardous Decomposition Products:COMPOSITION & QUALITY OF FUMES & GASES ARE DEPENDENT UPON METAL BEING WELDED, PROCS, PROCESSES, ELECTRODES

USED,(SUPDAT)

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

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

REGULATIONS.

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