View NSN Online: https://aerobasegroup.com/nsn/3439-01-190-0661

## 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:G O252

=== 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%

OS

HA 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

RTECS #:9999999ZZ

Ingred Name:SUPDAT:WELDING/HOT CUTTING ARE: ALUMINUM F
UMES, CARBON
MONOXIDE, CHROMIUM, CHROMIUM (CHROMATES), COBALT FUME, (ING 6)

Ingred Name:NG 5:COPPER FUME, IRON OXIDE FUME, MANGANESE FUME, MOLYBDENUM, NICKEL, TUNGSTEN, NITROGEN DIOXIDE, OZONE, PHOSGENE. RTECS #:9999999ZZ

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,

1991: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 C

UTTING, 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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

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

Reports of Car

cinogenicity: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:G

- RP 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 MASSAGE. 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 **FLAMMABLE** S & 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 MANUFACTURER.

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

& 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. MO
NITOR 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 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 Sa fety 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.
======================================
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 & LOCA

## L 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 pa rticular situation.