

ARCOS ALLOYS DIV OF HOSKINS MFG. CO. -- 308 STAINLESS STEEL ALLOYS -- 3439-00-528-9063
===== Product Identification =====

Product ID:308 STAINLESS STEEL ALLOYS

MSDS Date:07/23/1997

FSC:3439

NIIN:00-528-9063

MSDS Number: CHHNN

=== Responsible Party ===

Company Name:ARCOS ALLOYS DIV OF HOSKINS MFG. CO.

Address:#1 ARCOS DRIVE

Box:308

City:MOUNT CARMEL

State:PA

ZIP:17851

Country:US

Info Phone Num:717

-339-5200

Emergency Phone Num:717-339-5200

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

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

Ingred Name:IRON

CAS:7439-86-6

RTECS #:NO6925000

Fraction by Wt: BALANCE

Other REC Limits:NONE RECOMMENDED

Ingred Name:CHROMIUM (SARA 313) (CERCLA)

CAS:7440-47-3

RT

ECS #:GB4200000
Fraction by Wt: 22.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3; 9596
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:MANGANESE (SARA 313)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 2.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C, 5 MG/M3 (FUME)
ACGIH TLV:0.2 MG/M3; 9596

Ingred Name:NICKEL (SARA 313) (CERCLA)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 11.0%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9596

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:YES
Health Hazards Acute and Chronic:THIS PRODUCT POSES NO HEALTH HAZ AS SHIPPED BUT MAY POSE A HELATH HAZ DURING USE.ELECTRIC ARC WELDING RAYS CAN INJURE EYES,BURNS SKIN.DUST/FUMES/GASES CAN BE DANGEROUS TO HEALTH.LUNG DMG MAY RESULT FR OM OVEREXPO.ACUTE:SHORT TERM E XPO
TO WELDING FUME/GAS/DUST MAY RESULT IN DISCOMFT.SKIN SENS MAY ALSO BE NOTED.ACUTE(SUP)
Explanation of Carcinogenicity:PER
MSDS:CHROMIUM-OSHA.SILICA-IARC(COVERED ELECTRODES CONTAIN SM AMT OF SILICA).
Effects of Overexposure:EYE INJURY, BURNS SKIN, LUNG DMG.
DIZZINESS,NAUSEA,FEVER,DRYNESS,IRRIT NOSE/THROAT/EYES.
HEAD,BREATHING DIFFICULTY,FREQUENT COUGHING, &/OR CHEST PAINS, PULM EDEMA, ASPHYXIAMION, FATAL.
Medical Cond Aggravated by Exposure:SOME WORKERS MAY EXPERIE

NCE

DISCOMFT @CONCEN BELOW TLV & OTHERS MAY BE AFFECTED BY PRE-EXISTING CONDITION OR OTHER OCCUP ILLNESS BECAUSE OF THE WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES.

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===== First Aid Measures =====

First Aid:IN CASES OF ELECTRICAL SHOCK TURN OFF POWER PRIOR TO REMOVAL FROM EXPO AREA & ADMIN OF 1ST AID. INHAL:REMOVE TO FRESH AIR.BREATH DIFF ADMIN OXY;NOT BREATH BEGIN ART RESP.NO DETECTABLE PULSE BEGIN EXTERN AL HEARAT MASSAGE.SKIN:WASH W/SOAP/WATER.EYE:FLUSH W/LG AMTS OF FRESH WATER FOR @LEAST 15MINS.INGEST:SEEK MED ATTN.IN ALL CASES SEEK MED ATTN FOR FIRST AID.

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

Flash Point:NON-FLAMMABLE
Lower Limits:NP
Upper Limits:NP
Extinguishing Media:NONE SPECIFIED BY MANUFACTURER.
Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.
Unusual Fire/Explosion Hazard:NON-FLAMMABLE HOWEVER SPARKS,ARCS,MOLTEN METAL CAN IGNITE FLAMMABLES & COMBUSTIBLES OR CAUSE EXPLOSIONS.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST/WASTE RESIDUES & PLACE IN SUITABLE DOT APPROV CNTNRS & DISPOSE OF IN FULL COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.AVOID INHAL/SKIN EXPOSURE.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:REFER TO ANSI Z49.1/OSHA 29CFR1910 FOR ADDN IMPORTANT INFO.ELECTRODES CONSUMED FUME/GAS DECOMPO GEN DIFF FROM INGRED-NEW CMPDS FORM.
Other Precautions:DECOMPO:USED.ALSO PRESENCE OF CONTAM IN ATMS.WELD/CUT OPERATION INCLUDE FROM VOLATILIZATION,RX,OXID OF MATLS,METAL OXIDES,CHROMATES,COMPLEX METALLICS.GAS RX PROD-CO,OZONE,NITROGEN OXIDES.CHLORINATE SO LVT DECOMPO INTO TOXIC GAS(PHOSGENE).

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

Respiratory Protection:USE WELD FUME RESP/AIR SUPP RESP WHEN

CUT/GRIND/WELD IN CONF SPACE/WHERE LOC EXHA/GEN VENTI DOESNT KEEP EXPO BEL RECOMMENDED LIMITS.MONITOR AIR QUALIINSIDE WELDER HELMET IF WONR &/OR WORKER BREATH ZON E TO DETERMIN IF RESP REQ/TYP.NIOSH APPR

Ventilation:USE WELL VENTI WHEN CUT/GRIND/WELD-KEEPS DUST/FUME/GAS FRM WORKERS BREATH ZONE/GEN AREA.KEEP EXPO BEL LIMITS.

Protective Gloves:GLOVES

Eye Protection:OHSА APPROV GOGG, GLASSES, FACESHIELD

Other Protective Equipment:WELD HELMET/FCSHIELD W/FILT LENSE.SELECT WELD LE

NS SHADE FROM AWS PUBLICATION F2.2.FLAME RETARDANT CLOTH.PROT SCREEN.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

HEALTH:EXPO CAN RESULT IN SAME SYMPT EXCEPT TO GREATER DEGREE AS WELL AS WATERY EYES, HEAD, BREATH DIFFI, FREQ COUGH &/OR CHEST PAINS.SOME TOXIC GASES MAY CAUSE PULM EDEMA, EMPYZIMIA AND EXCESSIVE EXPO C AN BE FATAL.CHRONIC:MAY RESULT IN NEUROLOGICAL DMG, LUNG FIBROSIS, PNEUMOCOCIOUSIS, OTHER LUNG DISEASES.

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Physical/Chemical Properties =====

HCC:N1

Boiling Pt:B.P. Text:NP

Melt/Freeze Pt:M.P/F.P Text:NP

Decomp Temp:Decomp Text:NP

Vapor Pres:NP

Vapor Density:NP

Spec Gravity:NP

pH:NP

Evaporation Rate & Reference:NP

Solubility in Water:NP

Appearance and Odor:COVERED WELD ELECTRODES-SOLID WIRE W/FLUX COATING.BARE FILLER METALS-SOLID WIRE

Percent Volatiles by Volume:NP

Corrosion Rate:NP

===== Stability and Reactivity Data =====

NONE SPECIFIED BY MANUFAC

TURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:WELD/HOT CUT FUME/GAS CANT CLASSIFIED
DIMPLY.COMPO/QUANT DEPENDS ON METAL
WELDED,PROCEDURES,PORCESS,WIRE/ELECT(OTH PREC)

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

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

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