

ARCOS ALLOYS DIVISION OF HOSKINS MFG. CO. -- OTHER ALLOYS, 18CB -- 3439-01-067-0697

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Product Identification
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Product ID:OTHER ALLOYS, 18CB

MSDS Date:05/01/1994

FSC:3439

NIIN:01-067-0697

Status Code:A

MSDS Number: CKXYW

=== Responsible Party ===

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

Address:#1 ARCOS DRIVE

City:MT CARMEL

State:PA

ZIP:17851

Country:US

Info Phone Num:570-33

9-5200; 717-339-5200

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

Resp. Party Other MSDS Num.:106

CAGE:19270

=== Contractor Identification ===

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

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Composition/Information on Ingredients
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Ingred Name:IRON (FE)

CAS:7439-89-6

RTECS #:NO4565500

Fraction by Wt: BALANCE

OSHA PEL:NONE

ACGIH TLV:NONE

Ingred N

ame:CHROMIUM (CR)
CAS:7440-47-3
RTECS #:GB4200000
= Wt:19.
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:NICKEL (NI)
CAS:7440-02-0
RTECS #:QR5950000
= Wt:.1
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:THIS PRODUCT POSES NO HEALTH HAZARD AS SHIPPED BU

T MAY POSE A HEALTH HAZARD DURING USE. ELECTRIC ARC WELDING RAYS CAN INJURE EYES AND BURN SKIN. DUST, FUMES AND GASES CAN BE DANGEROUS TO YOUR HEALTH. LUNG DAMAGE MAY RESULT FROM OVEREXPOSURE. SECTIONS (INGREDIENTS AND REACTIVITY) LIST SPECIFIC HAZARDOUS INGREDIENTS, REACTION PRODUCTS AND OSHA PEL'S AND ACGIH TLV'S. PRIMARY ROUTE OF ENTRY: FUMES, GASES AND DUST CAN BE A HEALTH HAZARD THRU INHALATION. ACUTE EXPOSURE: SHORT TERM EXPOSURE TO WELDING FUMES, GASES OR DUST MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR (S IGNS AND SYMPTOMS OF OVEREXPOSURE)

Explanation of Carcinogenicity:NICKEL: IARC GROUP 2B, VOL 49, PG 257, 1990. NTP 9TH ANNUAL REPORT ON CARCINOGENS.

Effects of Overexposure:HEALTH HAZARDS ACUTE AND CHRONIC (CONT): IRRITATION OF NOSE, THROAT AND EYES. SKIN SENSITIVITY MAY ALSO BE NOTED. ACUTE EXPOSURE CAN RESULT IN THE SAME SYMPTOMS EXCEPT TO A GREATER DEGREE AS WELL AS W ATERY EYES, HEADACHE

, BREATHING DIFFICULTY, FREQUENT COUGHING AND/OR CHEST PAINS. SOME TOXIC GASES MAY CAUSE PULMONARY EDEMA, ASPHYXIATION AND EXCESSIVE EXPOSURE CAN BE FATAL. CHRONIC EXPOSURE: CHRON IC EXPOSURE MAY RESULT IN NEUROLOGICAL DAMAGE, LUNG FIBROSIS, PNEUMONCONIOSIS AND OTHER LUNG DISEASES. NICKEL AND CHROMIUM ARE CONSIDERED POSSIBLE CARCINOGENS UNDER OSHA (29 CFR 1910.1200). THE STUDIE S FORMING THE BASIS (TOXICOLOGICAL INFO)

Medical Cond Aggravated by Exposure:SOME WORKERS

MAY EXPERIENCE

DISCOMFORT AT CONCENS BELOW THE TLV & OTHERS MAY BE AFFECTED BY PRE-EXISTING CNDTNS OR OTHER OCCUPATIONAL ILLNESS BECAUSE OF WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES.

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First Aid Measures
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First Aid:IN CASE OF ELECTRIC SHOCK, TURN OFF POWER PRIOR TO REMOVAL FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. INHALATION: 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 WITH SOAP AND WATER. EYES: FLUSH WITH LARGE AMOUNTS OF FRESH WATER FOR AT LEAST 15 MINUTES. INGESTION: SEEK MEDICAL ATTENTION.

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Fire Fighting Measures
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Flash Point:NONFLAMMABLE

Extinguishing Media:MEDIA SUITABLE FOR SURROUNDING FIRE .

Fire Fighting Procedures: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.

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Accidental Release Measures
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Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DEPARTMENT OF TRANSPORTATION (DOT) APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID INHALATION AND SKIN EXPOSURE.

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Exposure Controls/Personal Protection
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Respiratory Protection:USE WELD FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN CUTTING, GRINDING OR WELDING IN A CONFINED SPACE OR WHERE LOCAL EXHAUST OR GENERAL VENTILATION DOES NOT KEEP EXPOSURE BELOW RECOMMENDED LIMITS. MONITOR THE AIR QUALITY INSIDE THE WELDER'S HELMET, IF WORN, AND/OR THE WORKER'S BREATHING ZONE TO DETERMINE IF A RESPIRATOR (SUPPLEMENTAL SAFETY AND HEALTH)

Ventilation:USE ENOUGH VENTILATION WHEN CUTTING

G, GRINDING OR WELDING TO
KEEP DUST, FUMES AND GASES FROM THE WORKER'S BREATHING ZONE AND
(SUPPLEMENTAL SAFETY AND HEALTH)

Protective Gloves:IMPERVIOUS GLOVES .

Eye Protection:USE OSHA APPROVED GOGGLES, GLASSES AND/OR FACE SHIELD
(WORK HYGENIC PRACTICES)

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

PROTECTIVE CLOTHING: WEAR GLOVES AND FLAME RETARDANT CLOTHING WHEN
CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO (SUPPLEMENTAL
SAFETY AND HEALTH)

Work Hygienic Practices:EYE PROTECTION (CONT): WHEN CUTTING, GRINDING
OR WELDING. IN ADDITION, WHEN HOT CUTTING OR WELDING, WEAR WELDING
HELMET OR FACE SHIELD WITH FILTER LENS. SELECT WELDING LENS SHADE
FROM AWS PUB F2.2.

Supplemental Safety and Health

RESP PROT (CONT): IS REQUIRED AND THE TYPE NEEDED. USE ONLY NIOSH
APPROVED RESPIRATORS. VENTILATION (CONT): GENERAL AREA. KEEP
EXPOSURE BELOW THE LIMITS SPECIFIED IN (INGREDIENTS AND REACTIVITY)
SE CTIONS. OTHER PROT E

QUIP (CONT): RADIATION WHEN HOT CUTTING
OR WELDING. PROVIDE PROTECTIVE SCREENS TO SHIELD OTHERS.

===== Physical/Chemical Properties =====

HCC:T6

Appearance and Odor:BARE FILLER METALS ARE SOLID WIRE.

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

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:WELDING AND HOT CUTTING FUMES AND
GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY
ARE DEPENDEN

T ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES
AND TYPE OF WIRE (ECOLOGICAL INFO)

===== Toxicological Information =====

Toxicological Information:N/P. SIGNS AND SYMPTOMS OF
OVEREXPOSURE (CONT): FOR THIS CLASSIFICATION WERE FROM OPERATIONS
OTHER THAN WELDING OF CHROMIUM OR NICKEL. THERE IS CONSIDERABLE
CONTROVERSY ON THE EXTENT OF RESPIRATORY CANCER PROBLEMS DUE TO
NICKEL AND CHROMIUM. NEVERTHELESS EXPOSURES MUST BE MAINTAINED

BELOW THE LEVELS SPECIFIED IN (INGREDIENTS AND REACTIVITY) SECTIONS.

===== Ecological Information =====

Ecological:N/P. HAZARDOUS DECOMPOSITION PRODUCTS (CONT): OR ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THE PRESENCE OF CONTAMINENTS IN THE ATMOSPHERE. DECOMPOSITION PRODUCTS FROM THE WELDING OR CUTTING OPERATION INCLUDE THOSE FROM THE VOLATILIZATION, REACTION AND/OR OXIDATION OF THE MATERIALS IN (INGREDIENTS) SECTION AND MAY INCLUDE OXIDES OF THE METALS, CHROMATES AND COMPLEX METALLICS. GASEOUS REACTION PRODUCTS MAY INCLUDE CARBON MONOXIDE, OZONE AND NITROGEN OXIDES. CHLORINATED SOLVENTS MAY BE DECOMPOSED INTO TOXIC GASES SUCH AS PHOSGENE. WHEN ELECTRODES ARE CONSUMED, THE FUME AND GAS DECOMPOSITION PRODUCTS (TRANSPORT INFO)

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

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

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===== MSDS Transport Information =====

Transport Information:N/P. ECOLOGICAL INFO (CONT): GENERATED ARE DIFFERENT IN FORM FROM THE INGREDIENTS LISTED IN (INGREDIENTS) SECTION. NEW COMPOUNDS NOT IN THE ELECTRODES MAY FORM. THE KNOWN GASES AND FUMES THAT MAY FORM DURING WELDING OR HOT CUTTING AND THEIR EXPOSURE LIMITS ARE NOTED IN THE FOLLOWING TABLE: ALUMINUM FUMES, CAS # 7429-90-5, PEL: 5 MG/M3, TLV: 5 MG/M3. CARBON MONOXIDE, CAS # 630-08-0, PEL: 55 MG/M3, CEILING LIMIT: 229 MG/M3, TLV: 29 MG/M3. CHROMIUM, CAS # 7440-47-3, PEL: 1 MG/M3, TLV: 0.5 MG/M3. CHROMIUM (CHROMATES), CAS # VARIES WITH COMPOUND, PEL CEILING: 0.1 MG/M3, TLV 0.05 MG/M3. (SARA III)

===== Regulatory Information =====

SARA Title III Information:N/P. TRANSPORT INFO (CONT): COBALT FUME (CO), CAS # 7440-48-4, PEL: 0.1 MG/M3, TLV: 0.05 MG/M3. COPPER FUME (CU), CAS # 7440-50-8, PEL: 0.1 MG/M3, TLV: 0.0

5 MG/M3.

IRON OXIDE FUME (AS FE), CAS # 1309-37-1, PEL: 10 MG/M3, TLV: 5 MG/M3. MANGANESE FUME (MN), CAS # 7439-96-5, PEL CEILING: 5 MG/M3, TLV: 1 MG/M3. MOLYBDENUM (MO) (SOLUABLE), CAS # 7439-98-7, PEL: 5 MG/M3, TLV: 5 MG/M3. NICK EL (NI) (SOLUABLE), CAS # 7440-02-0, PEL: 0.5 MG/M3, TLV: 0.1 MG/M3. TUNSTEN (W) (SOLUABLE), CAS # 7440-33-7, PEL: 1 MG/M3, STEL: 3 MG/M3, TLV: 1 MG/M3. NITROGEN DIOXIDE, PEL CEILING: 9 MG/M3, TLV: 5.6 MG/M3. (FEDERAL REGS)

Federal

Regulatory Information:N/P. SARA III (CONT): OZONE, CAS # 10028-15-6, PEL: 0.2 MG/M3, STEL: 0.6 MG/M3, TLV CEILING: 0.2 MG/M3. PHOSGENE, CAS # 75-44-5, PEL: 0.4 MG/M3, TLV: 0.4 MG/M3. THE LIMIT FOR WELDING FUMES NOT OTHERWISE CLASSIFIED IS 5 MG/M3. SOME ELEMENTS OR COMPOUNDS WILL EXCEED THEIR PEL'S / TLV'S BEFORE THE TOTAL FUMES EXCEED 5 MG/M3.

===== Other Information =====

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