

ARCOS ALLOYS DIV OF HOSKINS MFG CO -- COBEND 1, COCRC, HIGH NICKEL & HIGH COBALT ALLOYS -- 3439-00-995-9719

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

Product ID:COBEND 1, COCRC, HIGH NICKEL & HIGH COBALT ALLOYS

MSDS Date:04/10/1998

FSC:3439

NIIN:00-995-9719

Status Code:A

MSDS Number: CLJTL

=== Responsible Party ===

Company Name:ARCOS ALLOYS DIV OF HOSKINS MFG CO

Address:#1 ARCOS DRIVE

Box:308

City:MTCA

RMEL

State:PA

ZIP:17851

Country:US

Info Phone Num:717-339-5200, CHEMTREC 800-424-9300

Emergency Phone Num:717 339-5200 800-424-9300

Resp. Party Other MSDS Num.:MSDS NO. A1000

Chemtrec Ind/Phone:(800)424-9300

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:KAMPI COMPONENTS CO., INC.

Address:210 RT 13

Box:721

City:

BRISTOL
State:PA
ZIP:19007-3517
Country:US
Phone:215-736-2000
Contract Num:SP0490-01-M-XG95
CAGE:7Z016

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

Ingred Name:CHROMIUM
CAS:7440-47-3
RTECS #:GB4200000
= Wt:33.
OSHA PEL:1 MG/M3
ACGIH TLV:0.5 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:MANGANESE
CAS:7439-96-5
RTECS #:OO9275000
= Wt:1.
OSHA PEL:C5 MG/M3
ACGIH TLV:5 MG/M3

Ingred Name:NICKEL
CAS:7440-02-0
RTECS #:QR5950000
= Wt:3.
OSHA PEL:1 MG/M3
EPA Rpt Qty:100 L
BS
DOT Rpt Qty:100 LBS

Ingred Name:TUNGSTEN
CAS:7440-33-7
RTECS #:YO7175000
= Wt:14.
OSHA PEL:5 MG/M3
OSHA STEL:10 MG/M3
ACGIH TLV:5 MG/M3
ACGIH STEL:10 MG/M3

Ingred Name:CARBON
CAS:7440-44-0
RTECS #:FF5250000
= Wt:3.

Ingred Name:COBALT
CAS:7440-48-4
RTECS #:GF8750000
Fraction by Wt: BALANCE
OSHA PEL:0.1 MG/M3
ACGIH TLV:0.02 MG/M3

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES

UTE: ELECTRIC ARC WELDING RAYS CAN

INJURE EYES AND BURN SKIN. DUST, FUMES AND GASES PRODUCED DURING USE ARE DNGEROUS TO HEALTH. LUNG DAMAGE MAY RESULT FROM OVEREXPOSURE. CHRONIC: MAY RESULT IN NEURO LOGICAL DAMAGE, LUNG FIBROSIS, PNEUMOCONIOSIS AND OTHER LUNG DISEASES.

Explanation of Carcinogenicity:WARNING: NICKEL, CHROMIUM, COBALT AND SILICA ARE KNOWN TO CAUSE CANCER. EXPOSURES TO THESE CHEMICALS MUST BE MAINTAINED BELOW THE LEVELS SPECIFIED.

Effects of Overexposure:E

LECTRIC ARC WELDING RAYS CAN INJURE EYES AND BURN SKIN. DUST, FUMES AND GASES PRODUCED DURING USE ARE DANGEROUS TO YOUR HEALTH. LUNG DAMAGE MAY RESULT FROM OVEREXPOSURE. SHORT TERM EXPOSURE TO WELDIN G FUMES MAY RESULT IN DISCOMFORT, DIZZINESS, NAUSEA AND DRYNESS & IRRITATION OF THE THROAT. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL. ACUTE EXPOSURE CAN CAUSE WATERY EYES, HEADACHE, BREATHING DIFFICULTY, FREQUENT COUGHING &/OR CHEST PAINS. SOME TOX

IC GASES MAY CAUSE

PULMONARY EDEMA, ASPHYXIATION AND EXCESSIVE EXOSURE CAN BE FATAL.

Medical Cond Aggravated by Exposure:SOME WORKERS MAY EXPERIENCE DISCOMFORT AT CONCENTRATIONS BELOW THE THRESHOLD LIMIT VALUES AND OTHERS MAY BE AFFECTED BY A PRE-EXISTING CONDITION OR OTHER OCCUPATIONAL ILLNESS DUE TO WIDE VARIATION.

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

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. ***IN ALL CASES, SEEK MEDICAL ATTENTION FOR FIRST AID.***

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

Flash Point:NONFLAMMABLE

Extinguishing Media: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 DEPARTMENT OF TRANSPORTATION (DOT) APPROVED CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. AVOID INHALATION AND SKIN EXPOSURE.

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

Respiratory Protection:US

E 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 IS REQUIRED AND THE TYPE NEEDED.

Ventilation:USE WELD VENTILATION WHEN CUTTING, GRINDING OR WELDING TO KEEP THE DUST, FUMES AND GASES FROM THE WORKERS BREATHING ZONE AND GENERAL AREA.

Protective Gloves:WEAR GLOVES AND FLAME RETARDANT CLOTHING.

Eye Protection:USE OSHA APPROVED GOGGLES, GLASSES AND/OR FACE SHIELD WITH FILTER LENS.

Other Protective Equipment:USE ONLY NIOSH APPROVED RESPIRATORS. WEAR GLOVES/FLAME RETARDANT CLOTHING WHEN CUTTING, GRINDING, WELDING SO NOT EXPOSE SKIN TO RADIATION WHEN CUTTING OR WELDING, PROVIDE PROTECTIVE SCREEN TO SHIELD OTHERS

Work Hygienic Practices:USE OSHA APPROVED GOGGLES, GLASSES &/OR FACE

SHIELD WHEN CUTTING, GRINDING OR WELDING. IN ADDITION,WHEN HOT CUTTING OR WELDING, WEAR WELDING HELMET OR FACE SHIELD WITH FILTER LENS. SELECT WELDING SHADES

Supplemental Safety and Health

PER TIR CHEMICAL COMPOSITION: 62% IRON, 21.5% CHROMIUM, 11% NICKEL, 2.5% MANGANESE, 0.6% SILICON, 0.5% MOLYBDENUM AND 0.08% CARBON.

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

HCC:N1

Appearance and Odor:COVERED WELDING ELECTRODES; SOLID WIRE W/FLUX COATING. BARE FI

LLER: SOLID WIRE

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

WELDING AND HOT CUTTING FUMES AND GASES CANNOT BE CLASSIFIED SIMPLY. THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING WELDED, THE PROCEDURES, PROCESSES AND TYPE OF WIRE OR ELECTRODES USED.

Hazardous Decomposition Products:MAY INCLUDE OXIDES OF THE METALS, CHROMATES & COMPLEX METALLICS, GASEOUS REACTION PRODS MAY INCLUDE CARBON MONOXIDE, OZONE, NITROGEN OXIDES, CHLORINATED SOLVENTS.MAY BE DECOMPOSED;TOXIC GAGES, PHOSGENE.

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

Waste Disposal Methods: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. A VOID INHALATION AND SKIN EXPOSURE.

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

SARA Title III Information:ARCOS WELDING RODS CONTAIN TOXIC CHEMCALS SUBJECT TO THE REPORTING REQUIREMENTS OF SEC 313 OF TITLE III OF SUPERFUND.

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

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 particular situation.