

ARCOS ALLOYS DIV OF HOSKINS MFG. CO. -- 502 -- 3439-00-204-4512

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

Product ID:502

MSDS Date:11/25/1985

FSC:3439

NIIN:00-204-4512

MSDS Number: BQDHM

=== Responsible Party ===

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

Box:308

City:MT.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

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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 (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9293

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1

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

LD50 LC50 Mixture:UNCLASSIFIED WELDING FUMES=5MG/M3 PEL
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO
Health Hazards Acute and Chronic:CHROMIUM: MAY CAUSE LUNG CHANGES.
COBALT: MAY CAUSE RESPIRATORY IRRITATION & DISEASE. IRON: MAY CAUSE
X-RAY CHANGES OF THE LUNGS. MANGANESE: MAY CAUSE METAL FUME FEVER,
AFFECT THE NERVOUS SYSTEM & RES P
IRATORY SYSTEM DISEASE.
MOLYBDENUM: MAY CAUSE IRRITATION. NICKEL: MAY CAUSE RESPIRATORY
DISEASE & ALLERGIC SKIN RASH.
Explanation of Carcinogenicity:NICKEL, COBALT-CHROMIUM ALLOYS, AND
CHROMIUM HAVE BEEN IDENTIFIED BY IARC AND/OR NTP AS POTENTIAL
CANCER CAUSING AGENTS.
Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY CAUSE METAL FUME
FEVER WITH SYMPTOMS OF CHILLS, FEVER, NAUSEA, COUGH, DRY THROAT,
WEAKNESS, MUSCLE ACHES, AND A SWEET OR METALLIC TASTE IN THE MOUTH.

PROLONGED OR REPEATE D EXPOSURE MAY CAUSE DIFFICULTY IN WALKING,
WEAKNESS OR CRAMPS IN THE LEGS, HOARSENESS, MEMORY LOSS, SKIN
SENSITIZATION.
Medical Cond Aggravated by Exposure:PRE-EXISTING CHRONIC SKIN, EYE OR
RESPIRATORY DISORDERS MAY BE AGGRAVATED IF INDIVIDUALS ARE
REPEATEDLY OVEREXPOSED TO FUMES AND DUST.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF RESPIRATORY SYMPTOMS
DEVELOP, CONSULT A PHYSICIA
N. EYE: FLUSH IMMEDIATELY WITH LARGE
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.
SKIN: WASH WIT H SOAP AND WATER. IF IRRITATION PERSISTS, GET
MEDICAL ATTENTION. INGESTION: INGESTION OF LARGE ENOUGH QUANTITIES
TO CAUSE HEALTH EFFECTS IS UNLIKELY. GET MEDICAL ATTENTION IF
NECESSARY.

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

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY
CHEMICAL.
Fire Fighting Procedures:WEA

R FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:NONE

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

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

===== Handling and Storage =====
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Handling and Storage Precautions:WEAR GLOVES AND FLAME RETARDANT
CLOTHING WHEN CUTTING, GRINDING OR WELDING. DO NOT EXPOSE SKIN TO
RADIATION WHEN HOT CUTTING OR WELDING.

Other Precautions:PROVIDE PROTECTIVE SCREENS TO SHIELD OTHERS. WHEN
ELECTRODES AND FLUXES ARE CONSUMED, THE FUME AND GAS DECOMPOSITION
PRODUCTS GENERATED ARE DIFFERENT IN FORM FROM THE INGREDIENTS
LISTED. NEW COMPOUNDS NOT IN THE ELECTRODES MAY FORM.

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

Respiratory Protection:WEAR NIOSH APPROVED RESPIRATORS FOR PROTECTION
AGAINST AIRBORNE DUST OR FUMES. RESPIRATORS SHOULD BE USED IN
ACCORDANCE WITH 29CFR 1910.134.

Ventilation:USE LOCAL AND GENERAL VENTILATION TO KEEP AIRBORNE
CONCENTRATIONS OF DUST OR FUMES BELOW THE TLV DURING USE.

Protective Gloves:WELDERS LEATHER GLOVES

Eye Protection:OSHA APPROVED GOGGLES/FACE SHIELD W/LENS

Other Protective Equipment:BARRIER CREAMS MAY BE NECESSARY TO PREVENT
SKIN SENS

ITIZATION AND DERMATITIS.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING.
LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

WELDING AND HOT CUTTING FUMES & GASES CANNOT BE CLASSIFIED SIMPLY.
THEIR COMPOSITION AND QUANTITY ARE DEPENDENT ON THE METAL BEING
WELDED, THE PROCEDURES, PROCESSES AND THE TYPE OF WIRE OR
ELECTRODES USED. OTHER INFLUENCING FACTORS ARE THE PRESENCE OF
CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GAS

ES.

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

HCC:N1

Vapor Pres:0

Solubility in Water:NEGLIGIBLE

Appearance and Odor:STEEL ROD

Percent Volatiles by Volume:0

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES
OF IGNITION

Hazardous Decomposition Products:WELDING AND CUTTING OPERATION MAY
INCLUDE OXIDES OF TH
E METALS, CHROMATES, FLUORIDES, COMPLEX
METALLICS, AND OZONE.

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

Waste Disposal Methods:RECYCLE OR DISPOSE IN ACCORDANCE WITH FEDERAL,
STATE & LOCAL REGULATIONS.

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