

ARCOS ALLOYS DIV OF HOSKINS MFG. CO. -- STAINLESS STEEL ALLOYS 816, NICU-7,60 --
3439-00-088-8987

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

Product ID:STAINLESS STEEL ALLOYS 816, NICU-7,60
MSDS Date:06/08/1990
FSC:3439
NIIN:00-088-8987
MSDS Number: BJNTJ
=== 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:717-339-5200/800-424-9300(CHEMTREC)
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

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

Ingred Name:CHROMIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: .01% %
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3
ACGIH TLV

:0.5 MG/M3; 9192
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:COPPER (SARA III)
CAS:7440-50-8
RTECS #:GL5325000
Fraction by Wt: 22.24%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1MG/M3 FUME/1 DUST
ACGIH TLV:0.2MG/M3 FUME; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 4.0% %
Other REC Limits:NONE SPECIFIED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:TITANIUM, METAL
CAS:7440-32-6
RTECS #:X
R1700000
Fraction by Wt: 2.25% %
Other REC Limits:5 MG/M3 WELD FUME

Ingred Name:NICKEL (SARA III)
CAS:7440-02-0
RTECS #:QR5950000
Fraction by Wt: 69.0% %
Other REC Limits:NONE SPECIFIED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3; 9192

Ingred Name:IRON
CAS:7439-89-6
RTECS #:NO4565500
Fraction by Wt: 2.5% %
Other REC Limits:5 MG/M3 WELD FUMES

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:NO

Ingestion:NO

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

Health Hazards Acute and Chronic:SHORT TERM EXPOSURE TO WELDING FUMES, GASES OR DUST MAY RESULT IN DISCOMFORT. SKIN SENSITIVITY MAY ALSO BE NOTED. ACUTE EXPOSURE CAN RESULT IN PULMONARY EDEMA, ASPHYXIATION. CHRONIC EXPOSURE MAY RESULT IN NEUROLOGICAL DAMAGE, LUNG FIBROSIS, PNEUMONOCONIOSIS AND OTHER LUNG DISEASES.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM ARE CONSIDERED POSSIBLE CARCINOGENS UNDER OSHA, NTP AND IARC

Effects of Overexposure:SHORT TERM EXPOSURE TO WELDING FUMES MAY RESULT IN DIZZINESS, NAUSEA, FEVER, DRYNESS AND/OR IRRITATION OF NOSE, THROAT AND EYES. ACUTE EXPOSURE MAY RESULT IN SAME SYMPTOMS AS WELL AS WATERY EYES, HEAD ACHE, BREATHING DIFFICULTY, FREQUENT COUGHING AND/OR CHEST PAINS.

Medical Cond Aggravated by Exposure:SOME WORKERS MAY EXPERIENCE DISCOMFORT AT CONCENTRATIONS BELOW THE TLV AND OTHERS MAY BE AFFECTED BY A PRE-EXISTING CONDITION OR OTHER OCCUPATIONAL ILLNESS BECAUSE OF THE WIDE VARIATION IN INDIVIDUALS

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

First Aid:IN CASE OF INGESTION: SEEK MEDICAL ATTENTION. IN CASE OF INHALATION, REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT ADMINISTER OXYGEN. IF NOT BREATHING BEGIN ARTIFICIAL RESPIRATION. IF NOT DETECTABLE PULSE BEGIN EXTERNAL HEART MASSAGE. SKIN CONTACT: WASH AFFECTED AREA WITH SOAP AND WATER. EYE CONTACT: FLUSH WITH LARGE AMOUNTS OF WATER. IN CASE OF ELECTRICAL SHOCK, TURN OFF POWER AND GIVE 1ST AID.

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

Flash Point:NONFLAMMABLE
Extinguishing Media:SUITABLE FOR SURROUNDING MATERIALS
Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.
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 DOT APPROVED CONTAINERS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

Other Precautions:IN ALL CASES, SEEK MEDICAL ATTENTION FOR FIRST AID.

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

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.

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

Protective Gloves:FLAME RETARDENT GLOVES

Eye Protection:OSHA-APPROVED GOGGLES, GLASSES, FACESHIELD

Other Protective Equipment:FLAME RETARDENT CLOTHING, PROTECTIVE SCREENS

TO SHIELD OTHERS.

Work Hygienic Practices:DO NOT EXPOSE SKIN TO RADIATION WHEN HOT CUTTING OR WELDING.

Supplemental Safety and Health

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. USE ONLY NIOSH APPROVED RESPIRATORS.

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

HCC:N1

Solubility in Water:NEGLIGIBLE

Appearance and Odor:SOLID WIRE

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Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NONE SPECIFIED BY MANUFACTURER.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:COPPER FUMES, IRON OXIDE FUMES, MANGANESE FUMES, NICKEL

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

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

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n by the compiling agencies):

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