View NSN Online: https://aerobasegroup.com/nsn/3439-01-067-0697

ARCOS ALLOYS DIVISION OF HOSKINS MFG. CO. -- STAINLESS STEEL ALLOYS, 309 3439-01-067-0697

Product ID:STAINLESS STEEL ALLOYS, 309

MSDS Date:05/01/1994

FSC:3439

NIIN:01-067-0697 Status Code:A

MSDS Number: CKXVP === Responsible Party ===

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

Address:#1 ARCOS DRIVE

City:MT CARMEL

State:PA ZIP:17851 Country:US

Inf

o Phone Num:570-339-5200; 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

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

Ingred Name: IRON (FE)

CAS:7439-89-6

RTECS #:NO4565500 Fraction by Wt: BALANCE

OSHA PEL:NONE

ACGIH

TLV:NONE

Ingred Name: CHROMIUM (CR)

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 25% OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

Ingred Name: MANGANESE (MN)

CAS:7439-96-5

RTECS #:009275000 Fraction by Wt: 2.5%

OSHA PEL:5 MG/M3 CEILING

ACGIH TLV:5 MG/M3

Ingred Name: NICKEL (NI)

CAS:7440-02-0

RTECS #:QR5950000 Fraction by Wt: 14% OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

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

Routes of Entry: Inhalation:YES S

kin:YES Ingestion:NO

Health Hazards Acute and Chronic:THIS PRODUCT POSES NO HEALTH HAZARD AS SHIPPED BUT 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 ACGINTL

V'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, THR

OAT 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 CONSIDE

RED 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.

	First Aid Measures	
--	--------------------	--

First Aid:IN CASE OF ELECTRIC SHOCK, TURN OFF POWER PRIOR TO REMO VAL

FROM EXPOSURE AREA AND ADMINISTRATION OF FIRST AID. INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT ADMINISTER OXYGEN. IF NOT BRE ATHING 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 MI NUTES. INGESTION: SEEK MEDICAL ATTENTION.

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

Flash Point:NONF

LAMMABLE

Extinguishing Media: MEDIA SUITABLE FOR SURROUNDING FIRE.

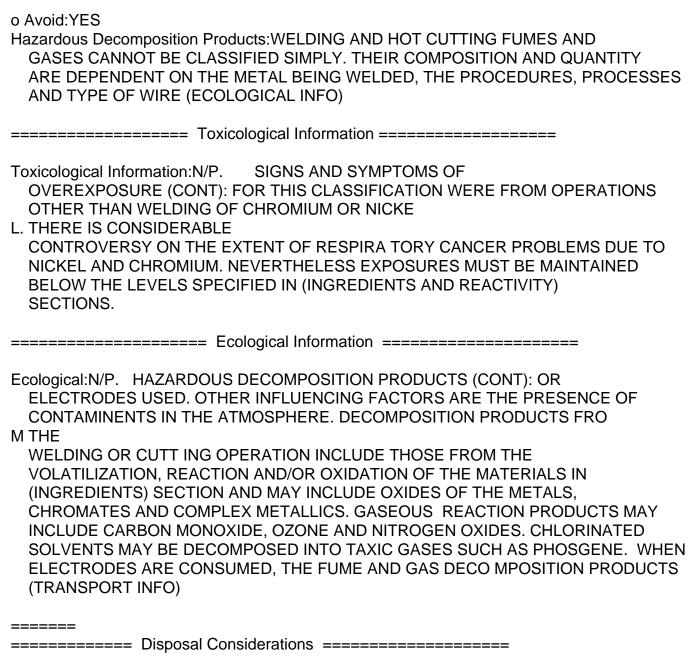
Fire Fighting Procedures: USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:NONFLAMMABLE; HOWEVER, ARCS, SPARKS AND MOLTEN METAL CAN IGNITE FLAMMABLES AND COMBUSTIBLES OR CAUSE EXPLOSIONS.

 Accidental Release Measures	

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES AND PLACE IN SUITABLE DEPARTMENT OF TRANSPORTATION (D

OT) APPROVED
CONTAINERS AND DISPOSE OF IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. A VOID INHALATION AND SKIN EXPOSURE.
====== 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. 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, 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 EQUIP (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 t



STATE AND LOCAL REGULATIONS.

======= 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 CUTTI

NG 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: 0.05 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 BEF
ORE

THE TOTAL FUMES EXCEED 5 MG/M3.

========== 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 ad vice to verify and

assume responsibility for the suitability of this information to their particular situation.