

ARCOS ALLOYS DIV OF HOSKINS MFG. CO. -- 300 SERIES ARCALOY AC-DC STAINLESS STEEL COVERED ELECTRODES -- 3439-00-878-2145

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

Product ID:300 SERIES ARCALOY AC-DC STAINLESS STEEL COVERED ELECTRODES

MSDS Date:05/21/1992

FSC:3439

NIIN:00-878-2145

MSDS Number: BTHVQ

=== Responsible Party ===

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

Address:#1 ARCOS DRIVE

Box:308

City:MT.CARMEL

State:PA

ZIP:17851

Country:US

Info Phone Num:717-339-5200

Emergency Phone Num:717-339-5200, CHEMTREC 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: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

CAS:7439-89-6

RTECS #:NO4565500

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:10 MG/M3 AS FE2O3

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9394

Ingred Name:MOLYBDENUM COMPOUND

NATE (MARBLE) (LIMESTONE)

CAS:1317-65-3

RTECS #:EV9580000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:SODIUM METASILICATE, ANHYDROUS

CAS:6834-92-0

RTECS #:VV9275000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:2 MG/M3 8HR

ACGIH TLV:C; 2 MG.M3

Ingred Name:NIOBIUM

CAS:7440-03-1

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3

Ingred Name:CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000

Other REC Limits:NONE RECOMMENDE

D

OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9394

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:C 5 MG/M3

ACGIH TLV:5 MG/M3, DUST; 9394

Ingred Name:TITANIUM DIOXIDE

CAS:13463-67-7

RTECS #:XR2275000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 MG/M3 TDUST

ACGIH TLV:10 MG/M3 TDUST; 9394

Ingred Name:CALCIUM FLUORIDE

CAS:7789-75-5

RTECS #:EW1760000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:2.5 MG/M3 AS F

ACGIH TLV:2.5 MG/M3 AS F

Ingred Name:POTASSIUM ALUMINUM SILICATE (FELDSPAR)

CAS:68476-25-5

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:2 MG/M3

Ingred Name:COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.1MG/M3 FUME/1 DUST

ACGIH TLV:0.2 MG/M3 FUME; 9394

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NT

P:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:SHORT-TERM (ACUTE) OVEREXPOSURE TO WELDING FUMES MAY RESULT IN DISCOMFORT SUCH AS DIZZINESS, NAUSEA OR DRYNESS OR IRRITATION OF NOSE, THROAT OR EYES. LONG-TERM (CHRONIC) OVER-EXPOSURE MAY LEAD TO SIDE ROSIS (IRON DEPOSITS IN LUNG) AND IS BELIEVED TO EFFECT AFFECT PULMONARY FUNCTION.

Explanation of Carcinogenicity:CHROMIUM(6+) IS LISTED BY NTP,IARC AND OSHA;NICKEL IS LISTED BY NTP AND IARC.

Effects of Overexposure:FU

MES AND GASES CAN BE DANGEROUS TO YOUR HEALTH. ARC RAYS CAN INJURE EYES AND BURN SKIN. ELECTRIC SHOCK CAN KILL.

Medical Cond Aggravated by Exposure:AGGRAVATION OF PRE-EXISTING RESPIRATORY OR ALLERGIC CONDITIONS MAY OCCUR IN SOME WORKERS.

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

First Aid:CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE AMERICAN RED CROSS.

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

Flash

Point:NONE

Extinguishing Media:NON-FLAMMABLE.

Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER.

Unusual Fire/Explosion Hazard:WELDING ARC AND SPARKS CAN IGNITE
COMBUSTIBLES.

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

Spill Release Procedures:NONE SPECIFIED BY MANUFACTURER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:READ AND UNDERSTAND THE MANUFACTURER'S

INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THE PRODUCT.

Other Precautions:SEE AMERICAN NATIONAL STANDARD Z49.1, "SAFETY IN
WELDING AND CUTTING" PUBLISHED BY THE AMERICAN WELDING SOCIETY.

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

Respiratory Protection:USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED
RESPIRATOR WHEN WELDING IN CONFINED SPACE OR GENERAL WORK AREA WHEN
LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURES BELOW TLV.

Ventilation:USE ENO

UGH VENTILATION, LOCAL EXHAUST AT THE ARC OR BOTH TO
KEEP FUMES AND GASES BELOW TLV LEVEL.

Protective Gloves:WELDER GLOVES.

Eye Protection:WELDER'S HELMET OR USE FACE SHIELDS.

Other Protective Equipment:WEAR HAND, HEAD, & BODY PROTECTION. INCLUDES
ARM PROTECTION, APRONS, HATS, SHOULDER PROTECTION, DARK CLOTHING.

Work Hygienic Practices:TRAIN THE WELDER NOT TO PERMIT LIVE PARTS OR
ELECTRODES TO CONTACT SKIN...OR CLOTHING OR GLOVES IF THEY ARE WET.

Supplemental Safety and Health

TRAIN

THE WELDER TO KEEP HIS HEAD OUT OF THE FUMES. INSULATE FROM WORK
AND GROUND.

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

HCC:N1

===== 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:WELDING FUMES AND GASES CANNOT BE
CLASSIFIED SIMPLY. THE COMPOSITION AND QUANTITY DEPENDS ON METAL

&
PROCESS.

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

Waste Disposal Methods: PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER, OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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.