

CYC HOLDINGS INC DBA HI-TECH ALLOYS -- ALLOY W CF ANL WELD QUAL -- 3439-00-178-8597
===== Product Identification =====

Product ID:ALLOY W CF ANL WELD QUAL

MSDS Date:02/02/1989

FSC:3439

NIIN:00-178-8597

MSDS Number: BHXXF

=== Responsible Party ===

Company Name:CYC HOLDINGS INC DBA HI-TECH ALLOYS

Address:25 WEST ST

Box:536

City:STAFFORD SPRINGS

State:CT

ZIP:06076

Country:US

Info Phone Num:203-684-6

326

Emergency Phone Num:203-684-6326 OR 800-448-3229

CAGE:0B491

=== Contractor Identification ===

Company Name:CYC HOLDINGS INC DBA HI-TECH ALLOYS

Address:25 WEST ST

Box:536

City:STAFFORD SPRINGS

State:CT

ZIP:06076

Country:US

Phone:203-684-6326

CAGE:0B491

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

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RTECS #:QR5950000

Fraction by Wt: 59%

Other REC Limits:NONE SPECIFIED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name:MOLY

BDENUM
CAS:7439-98-7
RTECS #:QA4680000
Fraction by Wt: 24.5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:15 MG/M3 TDUST
ACGIH TLV:10 MG/M3; 9293

Ingred Name:IRON OXIDE
CAS:1309-37-1
RTECS #:NO7400000
Fraction by Wt: 6.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:10 MG/M3 (FE)
ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name:CHROMIUM (SARA III)
CAS:7440-47-3
RTECS #:GB4200000
Fraction by Wt: 4.8%
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:COBALT (SARA III)
CAS:7440-48-4
RTECS #:GF8750000
Fraction by Wt: 2.5%
Other REC Limits:NONE SPECIFIED
OSHA PEL:0.1 MG/M3;AS CO
ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name:TUNGSTEN
CAS:7440-33-7
RTECS #:YO7175000
Fraction by Wt: 1.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:5 MG/M3/ 10 STEL
ACGIH TLV:5 MG/M3/10 STEL;9192

Ingred Name:MANGANESE (SARA III)
CAS:7439-96-5
RTECS #:OO9275000
Fraction by Wt: 1.0%
Other REC Limits:NONE SPECIFIED
OSHA PEL:(C) 5 MG/M3 DUST
ACGIH TLV:5 MG/M

3 DUST 9293

Ingred Name:VANADIUM PENTOXIDE (SARA III)

CAS:1314-62-1

RTECS #:YW2460000

Fraction by Wt: 0.6%

Other REC Limits:NONE SPECIFIED

OSHA PEL:C,0.5 MG/M3

ACGIH TLV:0.05 MG/M3RDUST;9293

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:COPPER (SARA III)

CAS:7440-50-8

RTECS #:GL5325000

Fraction by Wt: 0.5%

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:THIS "INGREDIENT" IS LISTED TO INF

ORM THE READER OF THE PEL

& TLV FOR WELDING FUMES AS TOTAL PARTICULATES.

Other REC Limits:NONE SPECIFIED

OSHA PEL:5 MG/M3

ACGIH TLV:5 MG/M3

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

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:HAZARDS INCLUDE BREATHING OF METAL
OXIDE FUMES, METAL FUME FEVER, ULTRAVIOLET LIGHT BURNS OF SKIN
AND/OR EYES, THERMAL BURNS, AND E
LECTRIC SHOCK. NICKEL MAY
SENSITIZE AN ALLERGIC DERMATITIS.

Explanation of Carcinogenicity:NICKEL AND CHROMIUM ARE CONSIDERED
POSSIBLE CARCINOGENS UNDER OSHA. RESPIRATORY CANCER FROM WELDING IS
UNCONFIRMED.

Effects of Overexposure:EXPOSURE TO WELDING FUMES MAY RESULT IN
DIZZINESS, NAUSEA, FEVER AND/OR IRRITATION OF NOSE, THROAT AND
EYES. TOXIC GASES CAN BE FATAL.

Medical Cond Aggravated by Exposure:SOME WORKERS MAY BE AFFECTED BY A
PRE-EXISTING CONDITION OR OTHER OCCUPATI

ONAL ILLNESS BECAUSE OF THE
WIDE VARIATION IN INDIVIDUAL SUSCEPTIBILITIES.

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

First Aid:FUME INHALATION:REMOVE FROM EXPOSURE. GET MEDICAL ATTENTION.
THERMAL BURN:USE NORMAL FIRST AID. ULTRAVIOLET EXPOSURE:SKIN;TREAT
AS SUNBURN. EYE; GET MEDICAL ATTENTION. ELECTRIC SHOCK:TURN OFF
POWER. REMOVE AND RESTORE BREATHING IF NECESSARY. GET MEDICAL
ATTENTION.

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

Flash Point:NON-FLAMMABLE

Extinguishing Media:PRODUCT IS NON FLAMMABLE. EXTINGUISH FIRE WITH
MEDIA APPROPRIATE FOR SOURCE OF FIRE.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:ARCS AND SPARKS FROM WELDING MAY IGNITE
NEARBY COMBUSTABLES.

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

Spill Release Procedures:CLEAN UP ANY GRINDING DUST OR WASTE RESIDUES
AND PLACE IN SUITABLE DOT APPROVED CONTAINERS. AVOID INHALATION AND
SKIN EXPOSURE.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:NO SPECIAL HANDLING IS REQUIRED. STORE
AS DIRECTED BY MFR.

Other Precautions:PROVIDE PROTECTIVE SCREENS TO SHIELD OTHERS. WHEN
ELECTRODES AND FLUXES ARE CONSUMED, THE FUME AND GAS DECOMPOS
ITION

PRODUCTS GENERATED ARE DIFFERENT IN FORM FROM THE INGREDIENTS
LISTED. NEW COMPOUNDS NOT IN THE ELECTRODES MAY FORM.

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

Respiratory Protection:USE NIOSH/MSHA 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 PEL/TLV.

Ventilation:USE LOCAL VENTILATION WHEN CUTTING, GRINDING OR WEL

DING TO

KEEP THE DUST, FUMES & GASES FROM THE WORKERS BREATHING ZONE.

Protective Gloves:WELDERS LEATHER GLOVES

Eye Protection:OSHA APPR.GOGGLES/FACE SH'LD W/ANSI LENS

Other Protective Equipment:FLAME RETARDANT CLOTHING WHEN CUTTING,
GRINDING OR WELDING. DO NOT EXPOSE SKIN TO RADIATION WHEN HOT
CUTTING OR WELDING.

Work Hygienic Practices:USE GOOD INDUSTRIAL HYGIENE. WASH THOROUGHLY
BEFORE EATING OR SMOKING. LAUNDRER 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 GASES.

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

HCC:N1

Appearance and Odor:SOLID METAL ROD 0.0625 O.D. X 36 IN LONG, NO ODOR

=====

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

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:NONE

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

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

Waste Disposal Methods:DISPOSE I/A/W FEDERAL, STATE & 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.