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CYC HOLDINGS, INC. DBA HI-TECH ALLOYS -- HI-TECH X -- 3439-00-004-4548

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

Product ID:HI-TECH X MSDS Date:05/08/1989

FSC:3439

NIIN:00-004-4548

MSDS Number: BHXLK === Responsible Party ===

Company Name: CYC HOLDINGS, INC. DBA HI-TECH ALLOYS

Address:25 WEST STREET

Box:536

City:STAFFORD SPRINGS

State:CT ZIP:06076 Country:US

Info Phone Num:800-448-3229

Emergency Phone Nu m:203-684-6326

CAGE:JO785

=== Contractor Identification ===

Company Name: CYC HOLDINGS INC DBA HI-TECH ALLOYS

Address:25 WEST ST

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Phone:203-684-6326

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

Ingred Name:NICKEL (SARA III)

CAS:7440-02-0

RT

ECS #:QR5950000 Fraction by Wt: 47% OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9192

Ingred Name: CHROMIUM (SARA III)

CAS:7440-47-3

RTECS #:GB4200000 Fraction by Wt: 22% OSHA PEL:1 MG/M3

ACGIH TLV:0.5 MG/M3; 9192

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

Ingred Name: IRON OXIDE

CAS:1309-37-1

RTECS #:NO7400000 Fraction by Wt: 18.5% OSHA PEL:10 MG/M3 (FE)

ACGIH TLV:5 MG/M3(FE),B2; 9293

Ingred Name: MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000 Fraction by Wt: 9%

OSHA PEL:15 MG/M3 TDUST ACGIH TLV:10 MG/M3; 9293

Ing

red Name: COBALT (SARA III)

CAS:7440-48-4 RTECS #:GF8750000

Fraction by Wt: 1.5%

OSHA PEL:0.1 MG/M3;AS CO

ACGIH TLV:0.05 MG/M3;DUST 9293

Ingred Name: MANGANESE (SARA III)

CAS:7439-96-5

RTECS #:OO9275000 Fraction by Wt: 1%

Other REC Limits: 3 MG/M3 STEL (FUME)

OSHA PEL:(C) 5 MG/M3 DUST ACGIH TLV:5 MG/M3 DUST 9293

Ingred Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000 Fraction by Wt: 1%

OSHA PEL:5 MG/M3/ 10 STEL

ACGIH TLV:5 MG/M3/10 STEL;9192

====== 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 PIRATORY 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	
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First Aid: INHALATION: REMOVE TO FRESH AIR. CONSULT A PHYSICIAN. EYE: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN:

WASH WITH SOAP AND WATER. INGESTION: WHILE INGESTI ON OF LARGE ENOUGH QUANTITIES TO CAUSE HEALTH EFFECTS IS UNLIKELY, CONSULT A PHYSICIAN IF IT OCCURS.

=======================================	Fire	Fighting	Measures	=======================================
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Flash Point:NONE

Autoignition Temp: Autoignition Temp Text: NONE Extinguishing Media: NONE SPECIFIED BY MANUFACTURER. Fire Fighting Procedures: NONE SPECIFIED BY MANUFACTURER. Unusual Fire/Explosion Hazard: NONE SPECIFIED BY MANUFACTURER.

======= Accidental Re

10200	NACHIOC	

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 EXPOSU RE.

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

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

N 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 SENSITIZATION AND DERMATITIS.

Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR SMOKING. LAUNDER CONTAMINATIED CLOTHING BEFORE REUSE.

Supplemental Safety an

d 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 THEPRESENCE OF CONTAMINANTS. CHLORINATED SOLVENTS MAY DECOMPOSE TO TOXIC GASES.

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

HCC:N1
Boiling Pt:B.P. Text:HIGH
Melt/Freeze Pt:M.P/F.P Text:>2400F
Vapor Pres:NIL
Vapor

Density.NIL
Spec Gravity:7.5-8.5
Solubility in Water:NEGLIGIBLE
Appearance and Odor:36 INCH LONG X 0.035 INCH DIA. METAL WELDING ROD. NO ODOR
Percent Volatiles by Volume:0
======== 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 AND CUTTING OPERATION MAY
INCLUDE OXIDES OF THE METALS, CHROMATES, FLUOR

DanaituMIII

IDES, COMPLEX

METALLICS, AND OZONE.

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

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

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