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CARPENTER TECHNOLOGY CORP -- PYROMET 680 HI TEMP ALLOY, 5510941 -- 3439-00-882-7351

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

Product ID:PYROMET 680 HI TEMP ALLOY, 5510941

MSDS Date:10/01/2000

FSC:3439

NIIN:00-882-7351 Status Code:A

MSDS Number: CLBRN === Responsible Party ===

Company Name: CARPENTER TECHNOLOGY CORP

Address:101 W BERN ST

Box:14662 City:READING

State:PA

ZIP:19612-4662 Country:US Info Phon

e Num:610-208-2134 / 610-208-2457/2463

Emergency Phone Num:610-208-2134; 208-2457

Resp. Party Other MSDS Num.: REV NO 5

CAGE:71321

=== Contractor Identification === Company Name:AERO MIST INC Address:990 INDUSTRIAL PARK DR

Box:City:MARIETTA

State:GA

ZIP:30062-2433

Country:US

Phone: 404-422-2071

Contract Num:SP0490-96-MBS86

CAGE:52435

Company Name: CARPENTER TECHNOLOGY CORP

Address:101 W BERN ST

Box:14662 City:READING

State:PA

ZIP:19612-4662 Country:US

Phone:610-208-2134 / 610-208-2457/2457

CAGE:713

21

Company Name: JO-JON INC

Address:360 FREEPORT BLVD SUITE 1 & 2

Box:UNKNOW City:SPARKS

State:NV ZIP:89431 Country:US

Phone:702-356-6988

Contract Num:SP0490-99-M-W524

CAGE:009J0

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

Ingred Name:NICKEL

CAS:7440-02-0

RTECS #:QR5950000

= Wt:47.7

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3

Ingred Name: CHROMIUM

CAS:7440-47-3

RTECS #:GB4200000

= Wt:21.5

OSHA PEL:0.5 MG/M3 ACGIH TLV:0.5 MG/M3 EPA Rpt Qty:1 LB

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

Ingred Name:IRON

(REGULATED IN OXIDE FORM)

CAS:1309-37-1

RTECS #:NO7400000

= Wt:18.

OSHA PEL:10 MG/M3

ACGIH TLV:5 MG/M3;2 PPM

Ingred Name: MOLYBDENUM

CAS:7439-98-7

RTECS #:QA4680000

= Wt:8.8

OSHA PEL:5 MG/M3 (SOL) ACGIH TLV:10 MG/M3 (INSOL)

Ingred Name: MANGANESE

CAS:7439-96-5

RTECS #: OO9275000

= Wt:.6

OSHA PEL:5 MG/M3 C ACGIH TLV:0.2 MG/M3 C

Ingred Name:TUNGSTEN

CAS:7440-33-7

RTECS #:YO7175000

= Wt:.6

OSHA PEL:NONE

ACGIH TLV:5 MG/M3, 10 MG/M3 C

OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3

Ingred Name: COPPER

CAS:7440-50-8

RTECS #:GL5325000

= Wt:.1

Other REC Limits: 0.1 MG/M3 (FUME)

OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES

Health Hazards Acute and Chronic: AS SHIPPED, THE METAL PRODUCT IS AN

ARTICLE. THE LIKELIHOOD FOR HAZARDOUS CONSE

QUENCES THROUGH EYE,

SKIN CONTACT, INHALATION, OR INGESTION WOULD BE CONSIDERED MINIMAL. HOWEVER, IF YOUR PROCESS INVOLVE S GRINDING, MELTING, WELDING, CUTTING, OR OTHER PROCESS THAT CAUSES RELEASE OF DUST OR FUME, HAZARDOUS LEVELS OF THESE ALLOYS COULD BE GENERATED. INHALATION: PRIMARY ROUTE OF EXPOSURE, STEEL DUSTS AND FUMES MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT. CHRONIC EXPOSURE MAY AGGRAVATE PRE-EXISTING CONDITIONS. SKIN AND EYE CONTACT: MAY CAUSE IRRITATION

OR SKIN SENSITIVITY. INGESTION: CERTAIN CONSTITUENTS MAY BE HARMFUL IF SWALLOWED.

Explanation of Carcinogenicity:LIST OF CHEMICALS KNOWN TO CAUSE CANCER AND REPRODUCTIVE TOXICITY INCLUDES HEXAVALENT COMPOUNDS OF CHROMIUM AND NICKEL DUST FROM PYROMETALLURGICAL PROCESSING.

Effects of Overexposure:SYMPTOMS ARE FLU-LIKE INCLUDING: SHORTNESS OF BREATH, COUGHING, MUSCLE PAIN, FEVER AND CHILLS. GENERALLY, SYMPTOMS RESOLVE WITH REST IN A FEW DAYS. ALSO SYMPTOMS BASED ON I

NDIVIDUAL INGREDIENTS: EYES: IRRITATION. SKIN: IRRITATION, CONTACT DERMATITIS, ULCERATION, ALLERGIC REACTIONS. INHALATION: IRRITATION OF MUCOUS MEMBRANES, FIBROSIS, NASAL IRRITATION, CANCER, KIDNEY AND LIVER DAMAGE, FUME FEVER, SIDEROSIS, CNS SYMPTOMS, HEADACHE, CHANGES IN MOTOR ACTIVITY AND PSYCHOLOGICAL DISTURBANCES. Medical Cond Aggravated by Exposure:CHRONIC EXPOSURE TO ALLOY DUSTS AND

FUMES MAY AGGRAVATE PRE-EXISTING CONDITIONS.

====== First Aid Mea

First Aid:AS SHIPPED, THE METAL PRODUCT IS AN ARTICLE. THE LIKELIHOOD FOR HAZARDOUS CONSEQUENCES THROUGH EYE OR SKIN CONTACT, INHALATION ,OR INGESTION WOULD BE CONSIDERED MINIMAL. INHALTION: REMOVE PERSON FROM EXPOSURE TO FRESH AIR. IF BREATHING DIFFICULTY OCCURS, GET PROMPT MEDICAL ATTENTION. SKIN/EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES, SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. WA SH SKIN WITH SOAP AND WATER, IF

RASH DEVELOPS, SEEK

MEDICAL ATTENTION. INGESTION: SEEK MEDICAL ATTENTION.

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

Flash Point: NOT COMBUSTIBLE

Extinguishing Media: IN THE FORM SHIPPED, THESE SPECIALTY METALS ARE NOT COMBUSTIBLE.

Fire Fighting Procedures: NO SPECIAL INSTRUCTIONS OR EQUIPMENT FOR PRODUCT AS SHIPPED.

Unusual Fire/Explosion Hazard:IN THE FORM SHIPPED, HAZARDOUS DECOMPOSITION PRODUCTS ARE NOT EXPECTED.

========		Accidental Relea
se Measures	======	

Spill Release Procedures:LAND / WATER SPILL: AS SHIPPED, THIS PRODUCT DOES NOT POSE A HAZARD TO THE ENVIRONMENT.

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

Handling and Storage Precautions: STORE AWAY FROM ACIDS AND OXIDIZERS.

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

Respiratory Protection:IF INDUSTRIAL HYGENE MONITORING REVEALS AN OVEREXPOSURE DURING THE PROCESSING OF THE PRODUCT, ENGINEERING CON

TROLS ARE REQUIRED TO BE INSTALLED TO REDUCE EXPOSURES BELOW OSHA PERMISSIBLE EXPOSURE LIMI TS. IN THE ABSENCE OF FEASIBLE ENGINEERING CONTROLS, WEAR A NIOSH APPROVED RESPIRATOR FOR PROTECTION FOR THE TYPE OF PARTICULATE GENERATED.

Ventilation:LOCAL EXHAUST VENTILATION RECOMMENDED TO CONTRROL EMISSIONS NEAR THE SOURCE OF METAL BEING CUT, GROUND, WELDED, OR MELTED.

Protective Gloves: LEATHER GLOVES WHEN HEATING STEEL PRODUCT.

Eye Protection: SAFETY GLASSES AND FACE SHIELD WHEN GRIND

ING Other Protective Equipment: ADDITIONAL PERSONAL PROTECTIVE EQUIPMENT IS

Supplemental Safety and Health

HCC:N1

Melt/Freeze Pt:=1315.6C, ######F M.P/F.P Text:2400F TO 2800F Spec Gravity:7.5-8.5

Solubility in Water: INSOLUBLE

Appearance and Odor: GRAY SOLID; ODORLESS.

DEPENDENT ON THE OPERATION PERFORMED.

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

Stability Indicator/Materials to Avoid:YES

ACIDS,

BASES, AND OXIDIZERS

Hazardous Decomposition Products: NONE FOR PRODUCT AS SHIPPED.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

======== Toxicological Information ============

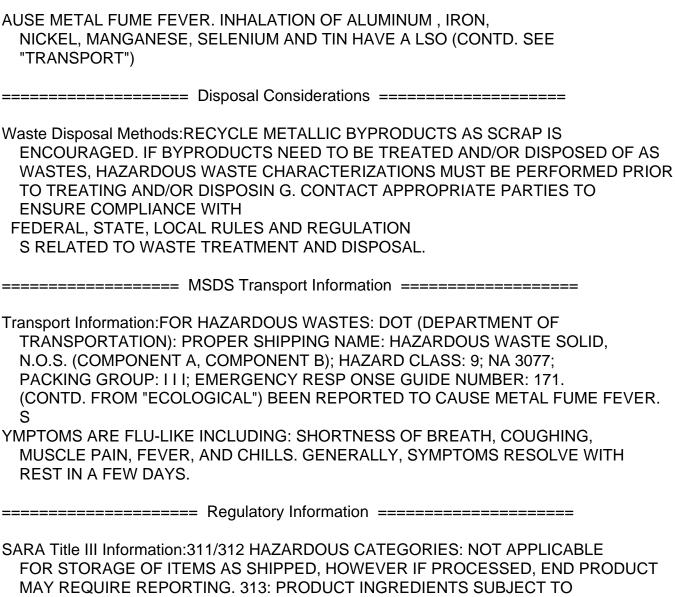
Toxicological Information: SPECIALTY STEEL ALLOYS ARE GENERALLY NOT CONSIDERED HAZARDOUS IN THE FORM SHIPPED (SOLID BAR, WIRE, STRIP OR BILLETS). HOWEVER, IF YOUR PRICESS INVOLVES GRINDING, MELTING, WELDING, CUTTING OR ANY OTHE R PROCESS THAT CAUSES RELEASE OF DUSTOR FUME, HAZAREIU

S LEVELS OF DUST OR FUMES OF THE CONSTITUENTS OF THESE ALLOYS COULD BE GENERATED. THE FOLLOWING IS A LIST OF POTENTIAL HEALTH EFFECTS FOR THE HAZA RDOUS ELEMENTS THAT MAY BE CONTAINED IN ANY OF THE ALLOYS. PLEASE REFER TO THE HAZARDOOUS INGREDIENTS PRECEDING FOR A LIST OF THOSE SPECIFIC ELEMENTS CONTAINED IN THE PARTICULAR ALLOY. (CONTD. SEE "E COLOGICAL")

========= Ecological Information ======================

Ecological: (CONTD. FROM "TOXICOLOGICAL") IT IS T HE USERS

RESPONSIBILITY TO ASSESSS POTENTIAL EXPOSURES BASED ON THEIR PROCESSING OF THE PRODUCT. ADDITIONALLY, PROTECTIVE COATINGS MAY HAVE BEEN APPLIED TO THE ST EEL AT THE REQUEST OF THE CUSTOMER. THE COATING WOULD REPRESENT LESS THAN 0.5% OF THE TOTAL MATERIAL PRESENT. MATERIAL SAFETY DATA SHEETS ARE AVAILAGLE FOR THESE COATING PROCUCTS AT YOUR REQUEST. GENE RAL: WELDING FUME, FUMES FRESHLY GENERATED BY THE WELDING OF ZINC, MAGNESIUM, AND COPPER, ARE KNOWN TO C



REPORTING REQUIREMENTS MAY IN CLUDE: CHROMIUM, NICKEL, MANGANES Ε,

COBALT, COPPER, VANADIUM, TITANIUM, OR ALUMINUM.

Federal Regulatory Information: TSCA (TOXIC SUBSTANCES CONTROL ACT): NOT APPLICABLE. CERCLA (COMPREHENSIBLE RESPONSE COMPENSATION AND LIABILITY ACT): NOT APPLICABLE. REGULATIONS SUCH AS CLEAN AIR ACT, CLEAN WATER ACT, RESOURCE CONCE RVATION & RECOVERY ACT MAY APPLY TO THE HANDLING OF STEEL GRINDINGS AND PARTICULATES FROM PROCESSING.

State Regulatory Information: CALIFORNIA SAFE DRINKING WATER ACT (PROP 65) LISTING: NICKEL,

CAS# 7440-02-0; COBALT, CAS# 7440-48-4.
GOVERNORS LIST OF CHEMICALS KNOWN TO CAUSE CANCER AND REPRODUCTIVE TOXICITY INCLUDES HEXAVALENT CO MPOUNDS OF CHROMIUM AND NICLEL DUST FROM PYROMETALLURGICAL PROCESSING.

============== Other Information ============================

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